

**IQY Technical College's Professional Diploma in Engineering Curriculum**

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## **COURSE STRUCTURE**

<b>Year</b>	<b>Course</b>	<b>Total Credit Point</b>
	Entry –Year 10	
	Year 11—Bridging Program	
	Year 12-- Certificate in Pre-vocational Studies	
1	Diploma in Engineering (Electrical/Civil/Mechanical)	30
	<b>Award- Diploma in Engineering</b>	<b>30</b>
2	Advanced Diploma in Engineering (Electrical/Civil/Mechanical)	30
	<b>Award- Advanced Diploma in Engineering</b>	<b>60</b>
3+4	Professional Diploma in Engineering  (Electrical/Civil/Mechanical/Mechatronics/Building Services)  (Electrical/Civil/Mechanical with Renewable Energy)	60
	<b>Award-Professional Diploma in Engineering</b>	<b>120</b>
	Total years spent after Year 10	6 Years

- The entry qualification for IQY Technical College's courses is Year 12 (International) Standard.
- The students who have completed Year 10 Examination require the Year 11+12 Level bridging study before commencing the major programs.
- Year 11+12 is standardized with Australian NSW Year 12 curriculum.

**Please refer** [\\_http://www.highlightcomputer.com/y712lessons.htm](http://www.highlightcomputer.com/y712lessons.htm) for details

## **IQY Technical College's Professional Diploma in Engineering Curriculum**

Professional Diploma in Engineering Programs of IQY Technical College are designed at the same standard of relevant Bachelor of Engineering degrees.. Although the word "Bachelor of Engineering" is utilized, the award of IQY Technical College is Professional Diploma in Engineering.

Bachelor of Engineering (Electrical)

Bachelor of Engineering (Civil)

Bachelor of Engineering (Mechanical)

Bachelor of Engineering (Civil-Building Services)

Bachelor of Engineering (Mechanical-Mechatronics)

Bachelor of Applied Science (Information Technology)

Bachelor of Business

## **Professional Diploma/ Bachelor of Engineering (Electrical)**

### **YEAR 3 +4**

#### **BACHELOR OF APPLIED ENGINEERING (ELECTRICAL)**

<b>Subjects</b>	<b>Points</b>	<b>Competency Units</b>
<b>BAE 401 Advanced Engineering Mathematics</b>	9	Maths 301 Introduction to Complex Variables ( 1 pt) Maths 302 Elementary Linear Algebra ( 1 pt) Maths 401 Continuous Distributions ( 1 pt) Maths 402 Discrete Distributions ( 1 pt) Maths 403 Engineering Mathematics ( 1 pt) Maths 501 Introduction to Probability( 1 pt) Maths 501 Linear Algebra & Matrices ( 1 pt) Maths 502 Finite Difference Methods for Partial Differential Equations & Mathematical Modelling ( 1 pt) Maths 601 Random Variables ( 1 pt)

<b>BAE 402 Calculus</b>	3	<p>Maths 304 Integration and Differential Equations. ( 1 pt)</p> <p>Maths 403 Second Order Ordinary Differential Equations ( 1 pt)</p> <p>Maths 303 Engineering Mathematics ( 1 pt)</p>
<b>BAE 403 Engineering Mechanics</b>	1	ME 301 Applied Mathematics ( 1 pt)
<b>BAE 404 Engineering Materials &amp; Thermodynamics</b>	3	<p>ME 334 Engineering Thermodynamics ( 1 pt)</p> <p>ME 434 Wind Turbines ( 1 pt)</p> <p>ME 634 Pneumatics ( 1 pt)</p>
<b>BAE 405 Advanced Circuit Analysis</b>	3	<p>EE 301 Electrical Circuits ( 1 pt)</p> <p>EE 303 Engineering Circuit Analysis ( 1 pt)</p> <p>EE 404 Electrical Measurement ( 1 pt)</p>
<b>BAE 406 Electro-mechanics</b>	2	<p>EE 502 Electrical Machines ( 1 pt)</p> <p>ME 301 Machine Principle ( 1 pt)</p>
<b>BAE 407 Advanced Electro-magnetics Field &amp; Materials</b>	1	EE 407 Electromagnetism ( 1 pt)
<b>BAE 408 Analogue &amp; Digital Electronics</b>	5	<p>EE 403 Introduction to Electronic Engineering ( 1 pt)</p> <p>EE 524 Power Electronics &amp; Applied Electronics ( 1 pt)</p> <p>EE 405 Digital System ( 1 pt)</p> <p>EE 526 Digital Signal Processing ( 1 pt)</p> <p>EE 527 Digital Image Processing 1/ 2 ( 1 pt)</p>
<b>BAE 501 Advanced Power Systems &amp; Power Transmission Networks</b>	3	<p>EE 512 Power System ( 1 pt)</p> <p>EE 302 Power System Technology (Optional)</p> <p>EE 402 Electrical Power ( 1 pt)</p> <p>EE 513 Power Transmission and Distribution Lines ( 1 pt)</p>
<b>BAE 502 Linear System</b>	1	EE 304 Computer Mathematics ( 1 pt)
<b>BAE 503 Control System</b>	4	EE 601 Non Linear Control Applications ( 1 pt)



		EE 601 Control Engineering , Feedback and Control System , P ID_Control ( 1 pt)  EE 624 Process Control ( 1 pt)  ME 534 Numerical Control Part 1 / 2 ( 1 pt)
<b>BAE 504 Power System Analysis</b>	<b>1</b>	EE 614 Power System Analysis
<b>BAE 505 Power System Optimization</b>	<b>1</b>	EE 613 Power System Optimization
<b>BAE 506 Power System Stability &amp; Protection</b>	<b>2</b>	EE 615 Power System Stability & Power Quality ( 1 pt)  EE 616 Power System Protection ( 1 pt)
<b>BAE 507 Electro-mechanical Energy Conversion</b>	<b>2</b>	EE 602 Motor Control Electronics ( 1 pt)  ME 434 Mechtronics & Robotics ( 1 pt)
<b>BAE 508 Industrial Engineering &amp; Industrial Management</b>	<b>1</b>	Mgt 501 Basic Management & Communication Skills ( 1 pt)
<b>BAE 601 Computer Programming</b>	<b>3</b>	IT 401 Object Oriented Programming ( 1 pt)  IT 402 Structured Programming ( 1 pt)  IT 403 Visual Basic Programming ( 1 pt)
<b>BAE 602 Computer Network</b>	<b>1</b>	ICT 202 Information Systems Principles and Networking ( 1 pt)
<b>BAE 603 Software Engineering</b>	<b>3</b>	ICT 106 Software Engineering ( 1 pt)  ICT 203 Information Systems, Analysis and Design ( 1 pt)  EE 626 Nano Technology ( 1 pt)
<b>BAE 604 Telecommunication Engineering</b>	<b>2</b>	EE 525 Data Communication ( 1 pt)  EE 603 Electronics Telecommunication ( 1 pt)
<b>BAE 605 Engineering Management</b>	<b>5</b>	Mgt 502 Operation Management ( 1 pt)  Mgt 503 Production & Operation Management ( 1 pt)  Mgt 504 Project Management ( 1 pt)

		Mgt 505 Quality Management and Manufacturing Engineering ( 1 pt)  Mgt 506 Strategic Financial Management ( 1 pt)
<b>BAE 606 Building Service Electrical &amp; Mechanical Engineering</b>	2	EE 617 Building Electrical and Mechanical System ( 1 pt)  ME 334 Airconditioning and Refrigeration ( 1 pt)  CE 301 Building Construction (Optional)  CE 301 Conceise Hydroulics (Optional)
<b>BAE 607 Radio Wave Propagation &amp; Microwave Techniques</b>	2	EE 625 Radio Wave Propagation (1 Pt)  EE 626 Microwave Technique (1pt)
<b>Total Credit points</b>	60	
<b>Credit Points given for Advanced Diploma in Electrical Engineering (Year 1+2)</b>	60	
<b>Total credit points</b>	120	

The renewable energy subjects can be substituted for some subjects

### Renewable Energy Subjects

**View** <http://www.highlightcomputer.com/BEElectricalNew.pdf> for the Professional Diploma in Engineering Combined with Renewable Energy Subjects

**View** <http://www.highlightcomputer.com/re.pdf> for detailed contents

## Professional Diploma in Electrical Engineering with Renewable Energy

### Common Year 3

1. BAE 401 Advanced Engineering Mathematics (9 pt)
2. BAE 402 Calculus (3 pt)
3. BAE 403 Engineering Mechanics (1 pt)

4. BAE 404 Engineering Materials & Thermodynamics (3 pt)
5. RE001- Foundation Studies in Renewable Energy and Sustainability (2 pt)
6. .RE003- Solar and Thermal Energy Systems (2 pt)
7. RE004- Energy Storage Systems (2 pt)
8. RE005- Renewable Energy Resource Analysis (2 pt)
9. RE006- Wind Energy Conversion Systems (2 pt)
10. RE010-Engineering Materials (2 pt)
11. RE012a-Electrical Engineering Part 1 (2pt)
12. RE016-Design& Management (BAE508) (2 pt)

B Applied Engg (Electrical)

YEAR 4 (Specialized)

1. BAE 601 Computer Programming
2. BAE 602 Computer Network
3. BAE 603 Software Engineering
4. RE012b-Electrical Engineering Part 2
5. RE002- Grid Connected Photovoltaic Power Systems
6. RE013-Electrical Machines
7. RE014-Electronics Control
8. RE015-Electrical Project/ Practice
9. BAE 501 Advanced Power Systems & Power Transmission Networks
10. BAE 506 Power System Stability & Protection
11. BAE 604 Telecommunication Engineering
12. RE007- Energy System Efficiency

## **Professional Diploma/ Bachelor of Engineering (Civil)**

### **Year (3) Part 1 ADVANCED GENERAL CIVIL ENGINEERING DEGREE LEVEL (17 pt)**

<b>Subjects</b>
<b>BAE 401 Advanced Engineering Mathematics (9 pt)</b>
<b>BAE 402 Calculus (3 pt)</b>
<b>BAE 403 Engineering Mechanics (1 pt)</b>
<b>BAE 404 Engineering Materials &amp; Thermodynamics (3 pt)</b>
<b>BAE 508 Industrial Engineering &amp; Industrial Management (1 pt)</b>
The renewable energy subjects can be substituted for some subjects
<b><u>Renewable Energy Subjects</u></b>
<b>View</b> <a href="http://www.highlightcomputer.com/BEElectricalNew.pdf">http://www.highlightcomputer.com/BEElectricalNew.pdf</a> for the Professional Diploma in Engineering Combined with Renewable Energy Subjects
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### **Year (3) Part 2 ADVANCED GENERAL CIVIL ENGINEERING DEGREE LEVEL (18 Pt)**

BAE421 Building Construction Engineering ( 4 pt)

BAE422 Estimating ( 2 pt)

BAE423 Fluid Mechanics ( 2 pt)

BAE424 Reinforced Concrete ( 2 pt)

BAE425 Timber Engineering ( 2 pt )

BAE521 Road & Bridge ( 2 pt )

BAE522 Rock Mechanics ( 2 pt )

BAE523 Soil Mechanics ( 2 pt )

BAE 523A Environmental Engineering (2 pt)

### **Year (4) Part 1 ( 17 pt)**

<b>BAE 601 Computer Programming (3 pt)</b>
<b>BAE 605 Engineering Management (5 pt)</b>
<b>BAE 606 Building Service Electrical &amp; Mechanical Engineering (2 pt)</b>
<b>BAE 609 Design Project (3 pt)</b>
<b>Total Credit points in this group</b>

### **Year (4) Part 2**

**( 12 Pt)**

BAE621 Structural Engineering ( 3 pt )

BAE623 Surveying& Traffic Engineering ( 2 pt)

BAE624 Water Supply , Sanitation & Finishing ( 2 pt )

BAE 608 Engineering Competency Demonstration Report Writing (2pt)

### **SELF STUDY**

BAE622 Architecture ( 3 pt )

Total points for Year 3+4= 60 pt

Advanced Diploma in Civil Engineering= 60 pt

Total= 120 pt

## **Professional Diploma in Civil Engineering with Renewable Energy**

### **Common Year 3**

1. BAE 401 Advanced Engineering Mathematics (9 pt)
2. BAE 402 Calculus (3 pt)
3. BAE 403 Engineering Mechanics (1 pt)
4. BAE 404 Engineering Materials & Thermodynamics (3 pt)

5. RE001- Foundation Studies in Renewable Energy and Sustainability (2 pt)

6. RE003- Solar and Thermal Energy Systems (2 pt)

7. RE004- Energy Storage Systems (2 pt)

8. RE005- Renewable Energy Resource Analysis (2 pt)

9. RE006- Wind Energy Conversion Systems (2 pt)

10. RE010-Engineering Materials (2 pt)

11. RE012a-Electrical Engineering Part 1 (2pt)

12. RE016-Design& Management (BAE508) (2 pt)

**Total points for Year 3-(32 Pt)**

B Applied Engg (Civil)

**YEAR 4 (Specialized)**

**Total points for Year 4-(24 Pt)**

1 RE011a-Civil& Mechanical Engineering Part 1 (2 pt)

(Assessment- Study Report)

2 RE011b-Civil& Mechanical Engineering Part 2a (2 pt)

(Assessment- Study Report)

3 BAE 606 Building Service Electrical & Mechanical Engineering (2 pt)

4BAE421 Building Construction Engineering ( 2 pt)

5 BAE422 Estimating ( 2 pt)

6 BAE423 Fluid Mechanics ( 2 pt)

7 BAE424 Reinforced Concrete ( 2 pt)

8 BAE522 Rock Mechanics ( 2 pt )

9 BAE 523A Environmental Engineering (2 pt)

10BAE621 Structural Engineering ( 2 pt )

11BAE623 Surveying & Traffic Engineering ( 2 pt)

12BAE624 Water Supply , Sanitation & Finishing ( 2 pt )

**Common Graduating Units (Year 5)**

13 BAE 605 Engineering Management (4 pt)

14 BAE 608 Engineering Competency Demonstration Report

Total points for Year 3+4+ Final graduating subjects =  $32+28+4= 60$  pt

## Professional Diploma/ Bachelor of Engineering (Mechanical)

### Year (3)

#### GENERAL APPLIED ENGINEERING (MECHANICAL) DEGREE (29pt)

<b>Subjects</b>
<b>BAE 401 Advanced Engineering Mathematics ( 9 pt)</b>
<b>BAE 402 Calculus (3 pt)</b>
<b>BAE 403 Engineering Mechanics (1 pt)</b>
<b>BAE 404 Engineering Materials &amp; Thermodynamics (3 pt)</b>
<b>BAE 507 Electro-mechanical Energy Conversion (2 pt)</b>
<b>BAE 508 Industrial Engineering &amp; Industrial Management (1 pt)</b>
<b>BAE511 Air-conditioning &amp; Refrigeration Part 1 (2 pt)</b>
<b>BAE613 Mechanical Instrumentation Process (2 pt)</b>
<b>BAE614 Machine Design (2 pt)</b>
<b>BAE512 Building Service Water Supply System (2 pt)</b>
<b>BAE511 Air-conditioning &amp; Refrigeration Part 2 (2 pt)</b>
<b><u>Renewable Energy Subjects</u></b>
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### Year (4) Part 1 BE (Mechanical + General Related Subjects) (15pt)

<b>BAE 601 Computer Programming(3 pt)</b>
<b>BAE 602 Computer Network (1 pt)</b>
<b>BAE 603 Software Engineering (3 pt)</b>
<b>BAE 605 Engineering Management 5 pt</b>
<b>BAE 606 Building Service Electrical &amp; Mechanical Engineering (3 pt)</b>



## **Year (4) Part 2**

### **Bachelor of Engineering (Mechanical) Specialization ( 13 pt)**

BAE311 Plant Engineering (2 pt)

BAE312 Design Engineering (2 pt)

BAE313 Environmental Control (2 pt)

BAE314 Mechanical Power Generation (2 pt)

BAE315 Materials Engineering (2 pt) Part 1 Part 2

**BAE 608 Engineering Competency Demonstration Report Writing (3 pt)**

### **Elective (3pt)**

<b>Subjects</b>
<b>BAE513 Production Technology</b>
<b>BAE611 Maintenance Engineering</b>
<b>BAE612 Engineering Metallurgy</b>

Total point for Year 3+Year 4 Part ½+Elective = 60 pt

Advanced Diploma in Mechanical Engineering= 60 pt

Total credit points= 120 pt

**The renewable energy subjects can be substituted for some subjects**

### **Renewable Energy Subjects**

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## **Professional Diploma in Mechanical Engineering with Renewable Energy**

### **Common Year 3**

1. BAE 401 Advanced Engineering Mathematics (9 pt)
2. BAE 402 Calculus (3 pt)
3. BAE 403 Engineering Mechanics (1 pt)
4. BAE 404 Engineering Materials & Thermodynamics (3 pt)
5. RE001- Foundation Studies in Renewable Energy and Sustainability (2 pt)
6. RE003- Solar and Thermal Energy Systems (2 pt)
7. RE004- Energy Storage Systems (2 pt)
8. RE005- Renewable Energy Resource Analysis (2 pt)
9. RE006- Wind Energy Conversion Systems (2 pt)
10. RE010-Engineering Materials (2 pt)
11. RE012a-Electrical Engineering Part 1 (2pt)
12. RE016-Design& Management (BAE508) (2 pt)

**Total points for Year 3-(32 Pt)**

### **YEAR 4 (Specialized)**

1. RE011a-Civil & Mechanical Engineering Part 1 ( 2 pt)  
(Assessment- Study Report)
2. RE011b-Civil & Mechanical Engineering Part 2a ( 2 pt)  
(Assessment- Study Report)
3. BAE 606 Building Service Electrical & Mechanical Engineering ( 2 pt)
4. BAE311 Plant Engineering (2 pt)
5. BAE314 Mechanical Power Generation (2 pt)

6. BAE315 Materials Engineering (2 pt) Part 1 Part 2 ( 2 pt)
7. BAE511 Air-conditioning & Refrigeration Part 1 ( 2 pt)
8. BAE512 Building Service Water Supply System ( 2 pt)
9. BAE613 Mechanical Instrumentation Process( 2 pt)
10. BAE614 Machine Design ( 2 pt)
11. RE007- Energy System Efficiency( 2 pt)
12. BAE 601 Computer Programming( 2 pt)

Total points for Year 4-(24 Pt)

**Common Graduating Units (Year 5)**

- 13 BAE 605 Engineering Management (4 pt)
- 14 BAE 608 Engineering Competency Demonstration Report

Total points for Year 3+4+ Final graduating subjects = 32+28+4= 60 pt

# **Professional Diploma/ Bachelor of Engineering (Civil-Building Services)**

## **STAGE (3) BASIC ELECTRICAL & ELECTRONICS ENGINEERING ( 18 Pt)**

### **REFER DIPLOMA/ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING DETAILED CONTENTS**

EE101 DC Circuit Problems

EE102 Basic Electrical Fitting& Wiring

EE103 Basic Electrical Drafting

EE104 Electrical Equipments Safety Protection

EE105 Electrical Installation Design

EE107 Electrical Equipments

EE106 Advanced Electrical Wiring

EE108 Electrical Fault Finding

EE109 Electrical Control Circuits

EE111 Electromagnetism & Basic Electrical Machines

EE112 Alternating Current Principle

EE113 Electrical Fundamental

EE115 Basic Analogue & Digital Electronics

EE116 Process Control System

EE117 Solar Electrical System

EE119 Electrical Risk Assessment

EE120 Electrical Contracting& Specifications

EE308 Sustainability

### **STAGE (4 A) ADVANCED MECHANICAL ENGINEERING STUDY ( 6Pt)**

#### **REFER DIPLOMA/ADVANCED DIPLOMA IN MECHANICAL ENGINEERING DETAILED CONTENTS**

ME 102 Engineering Thermodynamics  
 ME 109 Engineering Drawing  
 ME 107 Heat Transfer  
 ME 201 Introduction to Fluid Mechanics  
 ME 204 Engineering Fluid Mechanics  
 ME 301 Fluid Dynamics

### **STAGE (4B)ADVANCED ELECTRICAL & ELECTRONICS ENGINEERING STUDY (ADVANCED DIPLOMA) ( 4 pt)**

#### **REFER DIPLOMA/ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING DETAILED CONTENTS**

EE201 Engineering Mathematics  
 EE204 Engineering Physics  
 EE302 Advanced Engineering Mathematics  
 EE307 Energy Efficient Building Design

### **STAGE (5)BACHELOR OF APPLIED ENGINEERING (BUILDING SERVICE) DEGREE ( 32 pt)**

<b>Subjects</b>
<b>BAE 401 Advanced Engineering Mathematics</b>
<b>BAE 402 Calculus</b>
<b>BAE 403 Engineering Mechanics</b>
<b>BAE 404 Engineering Materials &amp; Thermodynamics</b>
<b>BAE 508 Industrial Engineering &amp; Industrial Management</b>

<b>BAE 601 Computer Programming</b>
<b>BAE 605 Engineering Management</b>
<b>BAE 606 Building Service Electrical &amp; Mechanical Engineering</b>
<b>BAE 609 Design Project</b>

## Professional Diploma/ Bachelor of Engineering (Mechanical-Mechatronics)

### Advanced Diploma of Mechanical Engineering)

REFER DIPLOMA/ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING DETAILED CONTENTS

REFER DIPLOMA/ADVANCED DIPLOMA IN MECHANICAL ENGINEERING DETAILED CONTENTS

(1) **ME104** Principle of Machine

(2)EE624 Process Control

### EE115 Basic Analogue& Digital Electronics

### EE116 Process Control System

(3)ME 334 Airconditioning and Refrigeration

(4) ME202 Aerodynamics

(5) ME 302 Automation-and-Robotics

(6) ME 303 Computer Aided Design and Manufacturing

(7) ME 234 Wind Turbines

(8) ME 201 Introduction to Fluid Mechanics

(9) ME 204 Engineering Fluid Mechanics +

ME 301 Fluid Dynamics

(10) ME 206 Introduction to Turbo Machinery

(11)ME 205 Manufacturing Processes & Materials

(12) ME 207 Chemical Thermodynamics

(13)ME 208 Hydrocarbons

(14) ME 634 Pneumatics

(15) ME 203 Control

(16) ME 534 Numerical Control

(17) ME 434 Mechtronics-Robotics

(18)EE 617 Building Electrical and Mechanical System

(19)EE105 Electrical Installation Design

EE107 Electrical Equipments

### **EE105 Electrical Installation Design**

### **EE107 Electrical Equipments**

(20)EE106 Advanced Electrical Wiring

(21) EE116 Process Control

(22) EE117 Solar Electrical System

(23) EE119 Electrical Risk Assessment

EE120 Electrical Contracting

(24) ME 109 Engineering Drawing

EE301 Advanced Electrical Drafting

(25) EE121 Electronics Power Control Devices

(26) EE206 AC

(27) EE207 DC

(28)EE202 Electrical Circuits

(29)EE203 Three Phase Power Circuits

(30) ME 305 Corrosion Prevention

(31) ME 306 Theory-of-waves-in- materials

### **Degree Level**

<b>Subjects</b>
<b>BAE 401 Advanced Engineering Mathematics</b>



<b>BAE 402 Calculus</b>
<b>BAE 403 Engineering Mechanics</b>
<b>BAE 404 Engineering Materials &amp; Thermodynamics</b>
<b>BAE 405 Advanced Circuit Analysis</b>
<b>BAE 406 Electro-mechanics</b>
<b>BAE 408 Analogue &amp; Digital Electronics</b>
<b>BAE 502 Linear System</b>
<b>BAE 503 Control System</b>
<b>BAE 507 Electro-mechanical Energy Conversion</b>
<b>BAE 508 Industrial Engineering &amp; Industrial Management</b>
<b>BAE 601 Computer Programming</b>
<b>BAE 602 Computer Network</b>
<b>BAE 603 Software Engineering</b>
<b>BAE 604 Telecommunication Engineering</b>
<b>BAE 605 Engineering Management</b>
<b>BAE 606 Building Service Electrical &amp; Mechanical Engineering</b>

# Professional Diploma/Bachelor of Engineering (Electrical)

## BAE 401 Advanced Engineering Mathematics (9 pt)

Subject Objective	This subject provides knowledge of mathematical methods needed for engineering problem solving
Learning outcome	The students develop both their thinking and problem solving skills. Topics covered are: vector, functions of a complex variable; algebra, differential equations, mathematical distribution, and applications of mathematics in engineering calculations.
Credit Point	9
Hours	216 Hrs
Assessment	Assignment/ Final Examination/Online MCQ Test

### Contents

#### An Introduction to theory of complex variables

Complex numbers

Functions

Differentiability

Integration in the complex plane

Integral theorems

Power series

Introduction of rational functions of trigonometric functions.

#### Continuous distribution

Exponential distribution

Normal distribution

Gamma distribution

Convergence in distribution

F distribution

#### Discrete distribution

Binomial distribution

Poisson distribution

#### Elementary linear algebra

Algebra in  $F^n$  Example problems

Geometric meaning of vectors

Geometric meaning of vector addition  
 Distance between points in  $\mathbb{R}^n$  Length of vector  
 Geometric meaning of scalar multiplication  
 Dot product  
 Cross product  
 System of equation geometry  
 System of equation – Algebraic operation  
 Matrice arithmetic  
 Determinants –Basic technique & properties

### Integration and differential equations

List of integrals  
 Introduction to background  
 Theorem of integration  
 Improper integrals  
 Improper integral problems  
 Integration of rational functions  
 Differential equations  
 First order ordinary differential equations  
 Homogenous equations  
 The general linear equations

### Random variables

Simple introduction examples  
 Problems  
 Frequency and distribution functions in 1 dimension

### Mathematical modelling preliminary

Introduction  
 Discrete time model

### Maths 301 Introduction to Complex Variables

The residue Theorem  
 Fourier Transform  
 Integral theorem of complex analysis with applications  
 to the evaluation of real integral  
 Introduction  
 Integral theorems – The green Theorem  
 Cauchy's integral theorem  
 Cauchy's residue theorem

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### Maths 302 Elementary Linear Algebra

A formula for the inverse  
 Cramer's rule  
 Example 6.2.3 , 6.2.4 , 6.2.6, 6.2.7  
 Rank of a matrix

Example 8.2.9 , 8.2.10, 8.3.3 , 8.3.5, 8.3.6, 8.3.7, 8.3.8

Linear independence and bases

Linear transformation

Constructing the matrix of a linear transformation

Linear programming

### Maths 401 Continuous Distribution

$\chi^2$  Distribution

F Distribution

F Distribution & “t” Distribution

Estimation of parameters

### Maths 402 Discrete Distribution

Geometric distribution

Pascal distribution

Negative binomial distribution

Hyper geometric distribution

### Maths 303 Essential Engineering Mathematics

Vectors and matrices

Functions and limits , Example problems

Calculation of one variable ( Part 1) Differentiation,

Calculation of one variable ( Part 1) Integration,

Calculus of many variables,

Ordinary differential equations,

Complex function theory

### Maths 501 Introduction to probability

Theoretical background

Playing card

Binomial distribution

Lotto Example

Conditional probabilities –Baye’s formula

### Maths 501 Linear algebra and matrices

Linear transformation matrices

Definition 2.1.1 to 2.1.3

$i, j$  Entry of product Definition 2.1.8

Rank of matrices

Row operations

### Maths 502 Introductory Finite Difference Method for PDE

Partial differential equations. Example problems

Taylor theorem  
Iterative solution methods  
Jacobi Iteration  
Gauss Seidel Iteration  
Successive Relaxation method

### Maths 601 Random Variables

Theoretical results  
Frequencies and distribution ( 1 dimension )  
Function of random variables

## **BAE 402 Calculus ( 3 pt)**

Subject Objective	This subject provides knowledge of calculus methods needed for engineering applications.
Learning outcome	The students develop both their thinking and problem solving skills. Topics covered are: vector calculus; functions of a complex variable; partial differential equations and boundary value problems; the concepts of quantum mechanics and Schrödinger's equation; and applications of mathematics in engineering calculations.
Credit Point	3
Hours	72
Assessment	Assignment/ Test/ Online MCQ Test

### **Contents**

#### **Calculus 1 a .pdf**

Differentiation, Example problems

Integration, Example problems

Simple differential equations, Example problems

#### **Calculus 2 a .pdf**

Integration of trigonometric polynomials

Complex decomposition of a fraction between two polynomials

Chain rule

Calculation of the directional derivatives

An overview of integration in the plane and in the space

Line integrals

Surface integral

Green's theorem in the plane

#### **Calculus 2b 1.pdf**

The range of functions in several variables

Line integral

Space integral

Line integral

#### **Calculus 3b. pdf**

Power series method in solution of problems, Example problems

**Calculus 3C 1. pdf**

Sequence in general

**Calculus 4C 1. pdf**

Sum function of Fourier series

**Maths 303 Engineering Mathematics**

Introduction and background

Integration of rational functions

Integration of trigonometric functions

Differential equations

**Maths 403 Second Order Differential Equations**

Power series solutions

Bessel equations and Bessel functions

Legendre polynomials

Differential equations

## BAE 403 Engineering Mechanics ( 1 pt)

Subject Objective	This subject builds on and brings together the concepts introduced in the Mathematical and Physical Modelling subjects and in Introduction to Mechanical and Mechatronics Engineering.
Learning outcome	It is intended to provide students with a comprehensive overview of elementary mechanics, and lay the basis for further work in this area in later subjects. In particular, material discussed in this subject is taken further in Machine Dynamics and Mechanics of Solids subjects in subsequent stages.
Credit Point	1
Hours	24 Hr of Lecture+ 48 Hr of Tutorials
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

Stress Example  
 Stress lectures  
 Strain All examples  
 Strain lessons  
 Mechanical properties of materials  
 Mechanical properties of materials  
 Axial members  
 Axial members  
 Torsion of shaft  
 Torsion of shaft  
 Symmetric bending of beams  
 Symmetric bending of beams  
 Deflection of symmetric beams  
 Deflection of symmetric beams  
 Stress transformation  
 Stress transformation  
 Strain transformation  
 Strain transformation  
 Design and failure  
 Design and failure  
 Stability of columns  
 Stability of columns  
 Newton motion  
  
 One dimensional motion



Simple harmonic motion

Damped oscillation

$$X(t) = A e^{-\gamma t/l} \cos(\omega t - \delta_r)$$

Rotating reference frame equations

Modern Mechanics Part 1

Modern Mechanics Part 2

Modern Mechanics Part 3

Modern Mechanics Part 4

Modern Mechanics Part A

Modern Mechanics Part B

Modern Mechanics Part C

## ME 301 Applied Mathematics

Kinematics

Projectiles

Forces

Resistance forces

Resolving forces

Rigid bodies

Centre of gravity

Momentum

Energy

Circular motion

Gravitation and planetary motion

The language of vectors

## BAE 404 Engineering Materials & Thermodynamics ( 3 pt )

Subject Objective	<p><u>Thermodynamics</u></p> <p>The objectives of this subject are to develop a fundamental understanding of applied thermodynamics in an engineering perspective, Strength of materials</p> <p><u>Strength of materials</u></p> <p>This subject draws on, and brings together, the knowledge and skills developed in earlier subjects such as Fundamentals of Mechanical Engineering, Chemistry and Materials Science, and Mechanics of Solids.</p>
Learning outcome	<p><u>Thermodynamics</u></p> <p>Use thermodynamics effectively in the practice of engineering, lay the groundwork for subsequent studies in the fields related to energy systems and increase an awareness and emphasis on energy resources and environmental issues.</p> <p><u>Strength of Materials</u></p> <p>It also prepares students for the more dedicated design subjects to come and exposes them to practical aspects of mechanical engineering design. The objectives are that students should be able to: understand, describe and use the methodology of modelling material properties and behaviour; understand and describe the fundamental differences in the behaviour of different types of materials; understand and describe how and why things fail; realise the importance of material selection in engineering design; predict, or design to avoid, failure given the material, environment and loading conditions; and use analytical skills in stress analysis and knowledge of material properties in mechanical design..</p>
Credit Point	3
Hours	72 Hrs
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

#### Heat Transfer. pdf

- (1) Heat transfer mode Example problems
- (2) Conduction Example problems
- (3) Convection Example problems
- (4) Radiation Example problems
- (5) Heat Exchanger Example problems

#### Theory of waves in materials.pdf

Materials-Preliminary  
 Materials- Basic mechanical properties  
 Basic wave phenomena  
 Harmonic waves  
 Elastic volume and shear waves  
 Rayleigh Elastic waves

### Engineering Thermodynamics

General definition  
 Thermodynamics-Working fluids  
 Laws of Thermodynamics  
 Worked Example 3.1 to 3.25

<b>ME434 Wind Turbines</b>
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Wind Energy
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Theory of wind energy
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Wind turbine types and components
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Wind energy measurement, Wheel encoder Worked
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### ME634 Pneumatics

Principle of pneumatics  
 Linear actuators  
 Flow control  
 Pneumatics sensors  
 Pneumatics symbols

## BAE 405 Advanced Circuit Analysis ( 3 pt )

Subject Objective	In this subject students are assumed to have knowledge of basic devices such as ideal and real voltage and current sources and loads; resistors; capacitors, inductors and coupled coils; diodes and operational amplifiers.
Learning outcome	To have basic circuit analysis skills such as Kirchhoff's current and voltage laws, Thevenin's and Norton's theorems, mesh and nodal analysis, symmetry, circuit transformation and superposition. Using this understanding as a starting point, the subject introduces the basic theoretical models that underpin signals and system analysis
Credit Point	3
Hours	72
Assessment	Assignment/ Test/ Online MCQ Test/ Online Simulated Practical

### Contents

DC Circuit Analysis

Circuit Theory

Modulators

Analog, digital signals , electric current, power summary

Circuit analysis, electric potential, electric power, sign convection, electric source, Kirchoffs' law

Circuit elements, characteristics KCL, KVL

Resistor (Series, parallel, wheatstone bridge, Nodal analysis

Nodal analysis, mesh analysis

Superposition theorem, Thevenin's theorem, Norton theorem, Maximum power transfer theorem,

Operational amplifier

Inverting amplifier circuit, Summing amplifier, Differential amplifier

Capacitor, Op-amp integrator, stored energy

Mutual inductance, time constant, transient

Transient response of 1 st order circuit, RL transient analysis, sequential switching

RC/RL Circuit , Propagation, Delay, DRAM

Semi conductor

PN Junction diode

Light emitting diode

MOSFET

Digital signal

CMOS Digital circuit

Combinational logic circuits

Flip flops

Propagation delay in timing diagram

Integrated circuit fabrication

Device isolation methods

Interconnected resistance and capacitance

Transistor scaling  
 Integrated circuit design for application in communications  
 Small signal amplifiers  
 Network noise intermodulation distortion  
 CAD for noise analysis  
 Sensors & Detectors  
 Low noise design methodology  
 Oscillators  
 Modulators and demodulators  
**Concepts in Electrical Circuit**  
 Circuit theorem  
 Sinusoids & phasors  
 Frequency response

### **EE303 Engineering Circuit Analysis**

Basic circuits

Basic Nodal and Mesh analysis

Linear and Superposition/ Source Transformation

RL/ RC Circuits

RLC Circuits

Sinusoidal steady state analysis

AC Power Circuit Analysis

Polyphase Circuits

Magnetically coupled circuits

Complex Frequency / Laplace Transform

Laplace Transform

Circuit analysis in “ S “ domain

Pole/ Zero constellation

Frequency Response

Two ports network

Fourier Circuit Analysis

Use of symmetry theory

**EE404 Electrical Measurement ( 1 pt )**

Measurement of inductance and capacitance

Measurement of resistance

Magnetic measurement

High voltage measurement and testing

Location of cable fault

Measurement of power

Measurement of energy

## BAE 406 Electro-mechanics ( 2 pt )

Subject Objective	The objectives of this subject are to consolidate fundamental knowledge of electric and magnetic fields; electric and magnetic circuits; how electric, magnetic and electromagnetic energy are interchanged;
Learning outcome	To model an electromechanical automation system using DC and AC motors and simulate its performance in open-loop and closed-loop control. Students also acquire skills in working with machines and equipment at normal mains supply voltage, in power instrumentation and control, PLCs and in experimental design and recording. Technical and theoretical content is expected to be acquired by students to the levels of 'know' (essential), 'familiar' (can solve problems if required) and 'aware' (have read/seen). Laboratory skills, ranging from electrical safety, measurements, design validation and experimental verification are an important focus of this subject.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test/ Online simulated Practical

### Contents

Electro-mechanic -1.0.1 Scope of application

1.1 Electro-magnetic theory

1.1.1a Magnetic field system, Table 1.1

1.1.1.b Electric field system Table 1.2

Lumped electro-mechanical elements

Lumped parameter-electro-mechanic

Rotating machines

Lumped parameter-electro mechanical dynamics

### EE 502 Electrical Machines

DC Generator, Example problems

DC Motors, Example problems

Efficiency & heating of electrical machines, Example problems

Three phase transformer, Example problems

Three phase induction motors, Example problems

Synchronous generators, Example problems

Synchronous motors, Example problems

Basic of industrial motor control, Example problems

## ME 301 Machine Principle

Rotating machines  
Machinery mounting  
Balancing  
Bearing  
Power transmission



## BAE 407 Advanced Electro-magnetics Field & Materials ( 1 pt)

Subject Objective	The objectives of this subject are to consolidate fundamental knowledge of electric and magnetic fields; electric and magnetic materials
Learning outcome	To understand how electric, magnetic and electromagnetic energy are interchanged.
Credit Point	1
Hours	24 + Tutorial 2 hr/ week
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

Electric field  
 Electrostatic potential  
 Dipole and quadrature pole movements  
 Batteries, resistors, ohm laws  
 Capacitors  
 Magnetic effect of an electric current  
 Force on current in a magnetic field  
 Electro-dynamics of moving bodies  
 Magnetic potential  
 Electro-magnetic Induction  
 Dimensions  
 Properties of magnetic materials  
 Alternating current  
 Laplace transform  
 Maxwell Equation  
 CGS Electricity & Magnetism  
 Magnetic dipole movement  
 Outlines  
 Electric field  
 Electrostatic Energy  
 Laplace's equation (1)  
 Laplace's equation (2)  
 Remarks on units  
 Green's functions  
 Multipole expansion  
 Electro-static in matter  
 Boundary condition  
 Magneto statics (1)  
 Magneto statics (2)  
 Macroscopic magneto statics  
 Maxwell's equation  
 DISC movement  
 Electro-magnetic plane waves  
 Reflection & refraction

Casual relation between D & E  
 Wave guides and load cavities  
 Electromagnetic radiation and scattering (1)  
 Electromagnetic radiation and scattering (2)  
 Scattering by small di-electric sphere  
 Electro-magnetism  
 Electro magnetic fields and moving charges  
 Multipole expansion  
 Magnetic constants and materials  
 Ampere law  
 Brief history of electro magnetism  
 Gauss's law  
 Numerical solutions to Laplace's equation  
 Small current loop  
 Curvilinear co-ordinate system  
 Problems  
 Dielectric tensors and constants  
 Analytic solution to Laplace equation  
 Magnetostatic boundary condition  
 Electrostatic boundary condition  
 Electromagnetic field  
 The gradient vector  
 Maxwell's equation  
  
 Electro-magnetic wave propagation  
**BAE 407 Advanced Electro-magnetic Field & Materials**  
**Electro dynamics**  
 Introduction to electro statics  
 Boundary value problems in electro statics (1)  
 Boundary value problems in electro statics (2)  
 Multi-poles Macroscopic media –Dielectrics  
 Static and stationary magnetic fields  
 Maxwell's equations  
 Plane wave and wave propogation  
 Wave guides and cavities  
 Radiation  
 The special theory of relativity  
 Particles and field dynamics  
 Charged particle collisions-Energy loss, Scattering  
 Radiation by moving charges  
  
**BAE 407 Advanced Electro-magnetic Field& Materials**  
  
 EMFT book.pdf  
 Summary of electro statics  
 Potential  
 Electro-magnetics waves  
 Classical optics  
 Conservation Law

Conservation Law  
Conservation Law  
Generic wave  
Electromagnetic waves in vacuum  
Electromagnetic waves in matter  
Electromagnetic waves in conductor  
Electromagnetic waves propagation  
Electromagnetic waves field  
Wave guides  
Electromagnetic waves radiation  
Electro-dynamics  
Frequency

### EE407 Electro-magnetism

Di-electric materials and capacitance  
Transmission Lines  
Maxwell's equations and electro-magnetic waves

Electrostatics

Di-electric

Transmission Line

Maxwell Equation

## BAE 408 Analogue & Digital Electronics ( 5 pt )

Subject Objective	<p><u>Analogue</u></p> <p>The main objective of this subject is to familiarise students with basic electronic circuits, mainly with op-amps as active elements, and their applications.</p> <p><u>Digital</u></p> <p>The objectives of this subject are to enable students to master the fundamentals of digital and programmable electronic circuits and their engineering applications; master the hardware architecture of a typical small computer system; and understand the principles of low-level programming and gain an ability to write simple assembly code.</p>
Learning outcome	<p><u>Analogue</u></p> <p>By the end of the subject, students should have acquired reasonable proficiency in the analysis of basic electronic circuits and be able to build and test circuits in the laboratory. Particular emphasis is placed on the practical, hands-on aspect of electronics to provide a solid foundation of working knowledge for basic analog electronic circuits using op-amps. Laboratory work is a significant proportion of in-class delivery so as to make students proficient in circuit construction, testing, troubleshooting and to give them a sound knowledge of the use of test instruments. Another objective is to show that practical electronic applications are relevant to other engineering and technical disciplines and may often be placed within a wider social or commercial context.</p> <p><u>Digital</u></p> <p>Students are introduced to the basics of concurrent and real-time application programming. Topics include digital sequential circuits; state diagram and its application in the design of digital circuits; basic hardware architectures of the digital computer in terms of its building blocks; how hardware integrates with software at the machine level; low-level language programming; internal architecture and design of a typical register-based central processing unit and a main memory subsystem, and their interdependence; concepts of computer system buses, as well as different types of input and output devices; interrupts; input and output; micro-controller theory; and hardware interfacing design techniques.</p>
Credit Point	5
Hours	120
Assessment	Assignment/ Test/ Online MCQ Test/ Online Simulated Practicals

### Contents

Semi conductor devices

Digital circuits

Power Electronics Converters

Introduction to Electronic Engineering

Power Electronics & Applied Electronics

Digital System

Digital Signal Processing

Digital Image Processing

Electronics Circuits

Power Electronics Control

### Digital System

Number system basics  
Introduction to logic gates  
Combinational logic  
Karnaugh map  
Arithmetic circuit  
Coders/ Multiplexers  
Counters

### Digital Signal Processing

Signal system representation  
Fourier/ Z Transform  
Discrete Fourier Transform  
Principle of filter design  
FIR filter design

### Digital Image Processing

Introduction  
Intensity transformation & spatial filtering  
Filtering in frequency domain  
Discrete Fourier Transform  
Butterworth Low Pass Filter  
Butterworth High Pass Filter  
Image restoration / Noise analysis

### Digital Image Processing

Introduction  
Intensity transformation & spatial filtering  
Filtering in frequency domain  
Discrete Fourier Transform  
Butterworth Low Pass Filter  
Butterworth High Pass Filter  
Image restoration / Noise analysis

## BAE 501 Advanced Power Systems & Power Transmission Networks ( 3pt)

Subject Objective	The subject introduces the basic methods used in the analysis and design of electric power networks.
Learning outcome	Its purpose is to give students a working knowledge of modern power system theory and practice. Techniques introduced in earlier circuit analysis subjects are further developed and applied to power system problems.
Credit Point	3
Hours	72
Assessment	Assignment/ Test/ Online MCQ Test/Online simulated practicals

### Contents

#### Principle of Power System

Source of energy  
 Steam power station  
 Hydro power station  
 Diesel power station  
 Nuclear power station  
 Gas turbine power station  
 Variable load on power station  
 Interconnected grid system  
 Economic of power generation  
 Importance of high load factor  
 Tariffs  
 PF improvement  
 Supply system  
 Mechanical design of OH line  
 Corona  
 Sag  
 Electrical design of OH line  
 Performance of transmission line  
 Line generalised constants  
 UG cable  
 Capacitance in 3 core cable  
 Distribution system  
 DC Distribution  
 DC System  
 AC Distribution  
 Voltage control  
 Introduction to switch gear  
 Circuit breaker  
 Fuse  
 Relays

Protection transformers  
Substation

### Advanced Power System –Power Transmission Network

Consequence of power quality  
Power quality & applications  
Power quality analysis  
Power quality monitoring  
Management, control and automation of power quality  
improvement

### Electrical generation and distribution system and power quality disturbances

Integration of hybrid distribution units in power grid  
Optimal location and control of multi hybrid model based wind shunt facts to enhance  
power quality  
Power quality and voltage sags indices in electrical power systems.

### Power Transmission Line

AASR Conductors  
ARC Fault  
Circuit breaker rating  
Current transformer  
Electrical bushing  
Electrical fuse  
Induction motor model  
IP rating  
Load factor  
Load redundancy  
Over current protection  
Partial discharge  
Per unit system  
Phase conversion  
Resonance  
RL Switching  
Sequence network  
Short circuit calculation  
Symmetrical component  
Transformer impedance

### Power Transmission Line 2

AC Power Transmission  
Insulation Resistance test  
Dry type transformer  
Electrical software



Insulation resistance test

## Electrical Power Generation System

Designing for high temperature and pressure

Turbine components

Burning of fuel

Facts about fuel

Burning gas and oil

Selecting fuel

Water treatment

Heat exchanger

Computer control

System economics

## Power System

Transmission & distribution system

Control of power and frequency

Control of voltage and reactive power

Load flow

Faults

System stability

Over voltage and insulation requirement

Substations and protection

## Electrical Power

Power line

Neutral earthing

Switch gear

Instrument

Protection

Power system

Generator response to system faults

Calculation of fault current

Symmetrical components

Commissioning electrical plant

## Power System Technology

Power system fundamental

Modern power system

Power control devices

Operational control system

Power conversion

Specialised testing & measurement devices

## Generation , Transmission and Distribution of Electric Power

Voltage transient and line surge  
Transmission of electrical energy  
Corona  
UG Cable  
Voltage drop in distribution  
Regulation  
Line and machine chart  
Voltage regulation stability  
Fault calculation in line

## Electrical Power Distribution in Industry & Transmission (Electrical Distribution Engineering)

Planning & design  
Electrical design  
Mechanical design (Over head)  
Mechanical design (Under ground)  
Metering  
Conductor inductance & capacitance

## Power Transmission and Practical Power Distribution

Electric power system  
Percentage and per unit quantities  
Circuit constants  
Assemblies of power system components  
Power circuit stability

## BAE 502 Linear System ( 1 pt )

Subject Objective	This subject presents the theoretical basis for system analysis and gives students skills in using the techniques to design components of linear control systems..
Learning outcome	<p>To do the design and implementation of part of a control/communication system</p> <p>To apply their knowledge to a real-life problem. Topics include signal types and their representation in the time and frequency domains; modelling systems with differential or difference equations and transforms of the equations; signal operations and processing; the relationship between discrete and continuous quantities and the mathematical techniques applicable to each; the effects of feedback; time and frequency domain performance of systems; system stability; and control design techniques and simple communication systems. Through learning activities students also gain study skills, including academic literacy skills, and an appreciation of the different fields of practice of engineering and the interdisciplinary nature of engineering.</p>
Credit Point	1
Hours	24
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

Controllability of linear control system  
 Finite dimensional linear control system  
 Linear partial differential equations  
 Introduction to intelligent control system with high degrees of autonomy  
 Overview of field

### Control system

System identification  
 Digital and analog  
 System metrics  
 System modelling  
 Classical control  
 Transform  
 Transfer functions  
 Sampled data system  
 System delays  
 Poles and zeros  
 Modern control  
 State space equation  
 Linear system solution

## BAE 503 Control System ( 4 pt )

Subject Objective	The objective of this subject is to enable students to model with validation control systems and to analyse, design and implement both analog and digital controllers so that the controlled systems conform with given specifications
Learning outcome	<p>Emphasis is placed on laboratory work, the theoretical content of the subject being only that required to produce successful designs.</p> <p>To work on reduced scale models of actual industrial processes. The equipment is based upon experience gained with authentic control applications and is suitably modified for student use.</p> <p>To follow the usual sequence adopted in industry, i start with the calibration of transducers and actuators leading on to dynamic response testing, physical modelling, model verification and finally to controller design, implementation and testing.</p>
Credit Point	4
Hours	96
Assessment	Assignment/ Test/ Online MCQ Test/ Programmable Control Program software applications
	<p>Topics include linear and nonlinear modelling of control systems using Newton's rules, analogous networks or Lagrangian techniques; linearisation and development of linear, time-invariant transfer functions; development of lead-lag compensators or PID controllers using classical control design techniques such as root locus, Bode gain and phase diagrams, Nyquist plots and Nichols chart; development of state-variable equations from differential equations; development of state-variable feedback controllers and state observers; open-loop pulse transfer functions and discrete-time state models; discretisation using backward difference, bilinear, step-invariance or pole-zero mapping; development of digital PID controllers, deadbeat controllers and discrete-time state-variable feedback controllers; describing functions and limit cycles for nonlinear control systems; and the development of linear controllers for nonlinear systems using describing function techniques.</p>

### Contents

Gain  
 Block diagram  
 Feedback control loop  
 Bode plot  
 Nichol chart  
**Stability**  
 Stability  
 Routh Hurwitz Criterion, Root Locus

Nyquist Criterion  
 State Space Stability  
**Controllers & Compensators**  
 Controllability & Observability  
 System Specifications  
 Controllers, Compensators  
 Z - Transform

### Non Linear Control Applications

Application of input/ output linearization  
 Non linear control for 2 stages PF correction converter  
 Non linear observer based control allocation

### Control Engineering MATLAB

Transfer functions and their responses  
 Frequency response/ Plotting  
 Closed loop control  
 Controller design

### Feedback and Control System

Introduction to linearized dynamic model  
 Transfer function model of physical systems  
 Transient performance / S- Plane  
 Feedback system modelling / Performance  
 Dynamic compensation of feedback system

### PID Control

Application of PID controllers in motor drive system

### Applications of Non Linear Control

Introduction  
 Phase plane method

### Process Control

Analog Signal Conditioning  
 Digital Signal Conditioning  
 Final Control  
 Discrete State Control  
 Controller Principle

Analog Controller  
Digital Controller  
Control Loop Characteristics

### Numerical Control

Introduction to numerical control machinery  
Numerical control system  
Programming co-ordinates  
Two axis programming  
Three axis programming  
Maths for numerical control programming

## BAE 504 Power System Analysis ( 1 pt )

Subject Objective	The primary objective of this subject is the development of a working knowledge of power systems analysis and design.
Learning outcome	Emphasis is placed on the derivation of equivalent circuits, mathematical models of devices and the system, and on methods of analysis and measurement. Material covered includes electricity supply chain building blocks, system analysis, real/reactive power and load flow analysis, dynamic and transient stability.
Credit Point	1
Hours	24
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

Overview  
 Real & Reactive power injected bus  
 Classification of buses  
 Classification of buses  
 Preparation of data for load flow  
 Load flow by Gauss Seidel method  
 Updating load bus voltage  
 Updating PV bus voltage  
 Convergence of the algorithm  
 Solution of a set of non linear equation by Newton Raphson method  
 Load flow by Newton Raphson method  
 Load flow algorithm  
 Formation of Jacobian matrix  
 Formation of Jacobian matrix  
 Solution of Newton Raphson load flow  
 Load flow results  
 Load flow results  
 Load flow programs in MATHLAB  
 Forming Y bus matrix  
 Gauss Seidel Load Flow  
 Solving non linear equation using Newton Raphson method  
 Newton Raphson load flow

### Power System Analysis

Transformer  
 Transmission line model  
 Gauss Seidel Algorithm  
 Newton Raphson Iteration  
 DC Power Flow Algorithm  
 Modelling  
 Transient Stability

### Power System Analysis

Power Apps Transient Stability validation document for single pole open/ close simulation (Power flow analysis + FAULT ANALYSIS + Power system dynamics and Stability)
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<b>Static Analysis</b>
Introduction
Network model
Active & reactive power flow
Nodal formation of power flow problem
Basic power flow problem
Solution of power flow problems
Fault analysis
Power system dynamics and stability
Synchronous machine model
The swing equation
Power swing in simple system
Oscillation in multi machine system
Voltage stability
Control of reactive power voltage



## BAE 505 Power System Optimization ( 1 pt )

Subject Objective	The primary objective of this subject is the development of a working knowledge of optimal power systems operation.
Learning outcome	The subject aims to provide students with a knowledge and understanding of elements of the supply chain and how they function in the National Electricity Market; demand-side management options including smart meters; load forecasting and optimal load scheduling for secure energy supply and use; protection schemes for transmission and distribution networks; communications in power systems, including communication media, architectures, automation, standards, protocols and security; and basic design, connection and standards of current and voltage instrument transformers for protection and metering applications.
Credit Point	1
Hours	24
Assessment	Assignment/ Test/ Online MCQ Test

### **Contents**

Introduction  
 Power Flow Analysis  
 Classic Economic Dispatch  
 Linear programming method  
 Mathematical model of economic dispatch  
 Linear programming model  
 Optimization of power system performance using facts devices  
 Optimization of dynamical system

Matrix Eigen Value Method

## BAE 506 Power System Stability & Protection ( 2 pt)

Subject Objective	The primary objective of this subject is the development of a working knowledge of power systems operation and protection. The subject aims to provide students with a knowledge and
Learning outcome	To provide the understanding of elements of the supply chain and how they function in transmission and distribution networks; communications in power systems, basic design, connection and standards of current and voltage instrument transformers for protection and metering applications.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test/ Simulated Online Practical

### **Contents**

Transient in RL circuit  
 Symmetrical fault  
 Transient in RL circuit  
 DC Source  
 AC Source  
 Faults in AC Circuit  
 Short circuit in unloaded synchronous generator  
 Symmetrical faults in power system  
 Calculation of fault current using Z bus matrix  
 Circuit breaker selection  
 Symmetrical components & representation of faulted network  
 Overview  
 Overview  
 Real & reactive power  
 Real & reactive power  
 Orthogonal Transformation  
 Sequence circuit for star load  
 Sequence circuit for delta load  
 Sequence circuit for synchronous generator  
 Sequence circuit for symmetrical transmission line  
 Sequence circuit for transformer  
 Star/ Star Connected Transformer  
 Delta/Delta Connected Transformer  
 Star/ Delta Connected Transformer  
 Sequence Network  
 Un- symmetrical Faults  
 Introduction  
 Single line to ground fault  
 Line to line fault  
 Two lines to ground fault  
 Fault current computation using sequence network

## Transient Stability

Introduction

Power angle relationship

Swing equation

Equal area criterion

Equal area criterion

Multi machine stability

Oscillation in “ S “ Two areas System

Compensation of power transmission

Introduction

Ideal shunt compensator

Improving voltage profile

Improving power angle characteristics

Improving stability margin

Improving damping power oscillations

Ideal series compensator

Impact of series compensator for voltage profile

Improving power angle characteristics

Improving power angle characteristics

Alternate mode to voltage injection

Alternate mode to voltage injection

Comparison of two modes of operation

Power flow control and power swing damping

## Power System Protection

Different types of relays and settings

- Technical feasibility of various options
- Cost of options
- Type of transmission AC/DC
- Number of circuits
- Conductor type
- Transmission loss
- Reactive power support requirements
- Reliability
- Quality of power supply
- Stability aspects of the interconnected system
- Operational planning
- Short circuit levels and breaker requirements
- over voltages and control
- Insulation coordination at substations
- Substation arrangements at the end of line, including switching arrangements.

- Insulation requirements.
- Protection, monitoring, control and automation requirements
- Study of harmonics where needed [as in case of HVDC or when a terminating station is close to sources of harmonics]
- Basic and Detailed engineering related to transmission towers, routes, substations

Philosophy of protective relaying

Fundamental of relaying

Current/ voltage/directional/ differential relay

Distance relaying

Pilot wire relay

Carrier current relay

Voltage transformer

Relay response

Generator protection

Transformer protection

Busbar protection

Line protection

Line protection with distance relay

Line protection with pilot relay

### Power system stability

Power system stability Guidelines

Power system stability guidelines for determination and report

Direct stability analysis of electric power system using energy functions

Power system stability –New opportunity for control

Typical power quality and harmonic measurement plots

Robust power system stabilizer design using particle swarm optimisation techniques

Harmonic analysis

### Power Quality

Power quality

Electrical protection for power system

Substation automation

Introduction to power quality

Harmonic model of transformer

Substation automation

Modelling analysis of synchronous machines

Life time reduction

Power system modelling under non sinusoidal condition

Impact of power quality on reliability

Role of filters in power system

## BAE 507 Electro-mechanical Energy Conversion ( 2 pt )

Subject Objective	The objectives of this subject are to enable students to: acquire an understanding of the nature of power semiconductor devices and their control and use in switch-mode;
Learning outcome	To understand the arrangement and topology of the circuits in which switch-mode devices are used; appreciate the use of power electronic circuits in high-power applications such as motor drives; be aware of the electromagnetic interference problems associated with power electronic systems; use commercial software for the rigorous circuit analysis of real power electronic systems; analysis and design circuits to meet specific specifications; and fabricate basic power electronic circuits such as a chopper.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test/ Simulated online practical

### Contents

Basic semiconductor physics  
 PN Junction semiconductor  
 Power switching devices  
 Electrical rating of switching devices  
 Cooling  
 Load/ switch communication  
 Driving semiconductor & thyristor  
 Protecting diode / Thyristor/ Transistors  
 Switching circuit energy recovery  
 Series , parallel devices operation protection  
 Naturally commutating converter  
 AC Voltage Regulator  
 DC choppers  
 Power inverters  
 Switched mode & resonant DC-DC power supplies  
 Capacitors  
 Soft magnetic materials  
 Resistors

### Motor Control Electronics

AC Induction motor control  
 Motor control MCU  
 Networking for motor control system  
 DC motor control design  
 Motor control electronic devices  
 Power semi conductors

## Mechatronics/ Robotics

Robotics Application  
Robotic Gears  
Interfacing  
Robotic Sensors  
Communication

## BAE 508 Industrial Engineering & Industrial Management (1 pt )

Subject Objective	To work effectively in industry as middle level managers
Learning outcome	To acquire the introductory skills in business information system, engineering management, supervision, quality control, manufacturing management , human resources management, budgeting, operation and managerial decision making.
Credit Point	1
Hours	24
Assessment	Assignment/ Test/ Online MCQ Test

### **Contents**

#### **Effective management decision making**

Introduction

#### **Business Information System**

Defining Information System

Acquiring Information System

Developing Information System

#### **Managing Human Resources in 21 Century**

Human resources Management

#### **Management Basics**

The Manager's Job

Planning in Organization

#### **Operation Management**

Operation Strategy

Work System Design

Project Management

Inventory Management

### **Quality Management**

Leadership in Quality Management

Strategic Quality Management

Implementing Quality Management

### **Strategic Financial Management**

Finance An Overview

Capital Budgeting

Equity Valuation & Cost of Capital

### **Strategic Management**

The Basic of Strategy

The Levels of formulation of strategy

External analysis

Internal analysis

Strategy implementation

### **Understanding organization part 1**

Organization structure

Organization culture

Managing behaviour

Effective leadership

### **Part (2) Competency Units**

Mgt 501 Basic Management & Communication Skills ( 1 pt)

Textbook – Mgt 501 Management Basics

Chapter (1) Management basics



Chapter (3) Planning

Chapter (5) Organizing

Chapter (6) Organizing the organization

Chapter (7) Leading

Textbook—Mgt501 Management Briefs

Chapter (2) Leadership

Chapter (5) Motivation

## BAE 601 Computer Programming ( 3 pt )

Subject Objective	This subject provides basic skills in Java/ C/C++/C# programming and software design,
Learning outcome	<p>To acquire the skill practice in object-oriented (OO) programming concepts, data flow, control flow, arrays, and the basics of sorting and searching algorithms.</p> <p>To illustrate a design process using a set of design notations and design rules, and shows how to develop a correct, readable and reusable solution from a problem specification.</p>
Credit Point	3
Hours	72
Assessment	Assignment/ Test/ Online MCQ Test/ Programming software application

### Contents

#### **Part (1) Overview Knowledge of the subject**

Select any of the following textbooks

- C Programming
- C++ Programming
- C# Programming
- Object Oriented Programming
- C Programming in Linux

IT 401 Object Oriented Programming ( 1 pt)

IT 402 Structured Programming ( 1 pt)

IT 403 Visual Basic Programming ( 1 pt)

## BAE 602 Computer Network ( 1 pt )

Subject Objective	The objectives of this subject are to introduce students to the basic concepts and terminology used in telecommunication networks and a system-level view of network operation.
Learning outcome	To understand the evolution of telecommunication networks; services and applications (voice, video, data, location-based services, multimedia, gaming, etc.); network protocols (TCP/IP, OSI); transmission and switching basics; transmission media; access networks; PSTN; internet (dial up, broadband, ISP); network security; mobile networks (2G, 2.5G, 3G, 4G); data networks (LANs, wireless LANs, WANs, SANs, PANs, enterprise networks); VoIP networks; and convergence in telecommunication networks, next generation networks (NGN) and digital identity in networks.
Credit Point	1
Hours	24
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

Computer Network  
 Peer to peer networking  
 Client server networking  
 Network hardware  
 Network cable  
 Hub  
 Wired network  
 Wireless network card  
 Firewall  
 Wiring the network  
 Wiring the network  
 Running the network program  
 Viewing network connection  
 Network set up on additional computers  
 Viewing network connection

Introduction  
 Network model  
 Data and signals  
 Data and signals  
 Data rate limit  
 Performance  
 Digital transmission  
 Digital transmission  
 Analog transmission  
 Analog transmission

Bandwidth utilization/ Multiplexing/  
Spreading  
Bandwidth utilization/ Multiplexing/  
Spreading  
Transmission media  
Error detection & correction  
Error detection and correction  
Defining needs  
Area covered  
Organization information requirement  
System VS Procedure  
Types of systems  
What are the systems?  
Infrastructure  
Support system  
Data mart  
Organizational structure  
Planning for system development  
System design  
Security of information system  
Risk management

## BAE 603 Software Engineering ( 2 pt )

Subject Objective	This subject introduces students to the fundamentals of contemporary software engineering.
Learning outcome	<p>To overview of the agile and non-agile software engineering principles, methods, tools and techniques is presented. Current trends and challenges in the practice of software engineering are explored.</p> <p>To apply contemporary agile requirements analysis, planning, architecture, design, implementation and testing practices to software engineering project work in small teams.</p>
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test/ Software Design Practice

### Contents

Introduction  
 Software process  
 Feasibility study  
 Project management  
 Documentation, Requirement analysis  
 Requirement specification  
 Business/ Legal aspect  
 Source code management  
 Formal specification  
 Object oriented design 1  
 Object oriented design 2  
 Object oriented design 3  
 System Architecture 1  
 System Architecture 2  
 System Architecture 3  
 Design for utility  
 Performance of computer system  
 Coding standard/ Tools for designing 1  
 Dependable system 1 Reliability  
 Dependable system 2 Validation  
 Law aspect  
 Risks in software engineering  
 Software engineering as engineering

### Nano Technology

What is Nano technology?  
 Motivation for Nano technology  
 Scaling laws  
 Nano technology

## BAE 604 Telecommunication Engineering ( 2 pt )

Subject Objective	On completion of this subject, students have learned the skills to systematically analyse network operations and performance, and also have the ability to appreciate approaches in designing communication and computer networks.
Learning outcome	To understand the communication architecture.  To provide the necessary background in understanding operations of TCP/IP, the mostly widely implemented protocol stack in computer networks, on a layer-by-layer basis.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

### **Contents**

Communication fundamental  
 Information & bandwidth  
 Amplitude modulation transmission  
 Amplitude modulation reception  
 Single side banded communication  
 Frequency modulation –Transmission  
 Frequency modulation –Reception  
 Communication Techniques  
 Communication Receivers  
 Pulse Modulation  
 Code transmission  
 ISDN  
 Transmission lines  
 Wave propagation  
 Antenna  
 Fibre optics

### **Data Communication**

Overview of data communication  
 Data terminals  
 Message and transmission channels  
 Asynchronous modems and interfaces  
 Synchronous modem and digital transmission  
 Protocol and error control

### **Electronics Telecommunication**

RF Transmission  
 Transmission Lines & Antennas, Video signals

## BAE 605 Engineering Management ( 5 pt )

Subject Objective	To work effectively in industry as middle level managers
Learning outcome	To acquire the advanced skills in business information system, engineering management, supervision, quality control, manufacturing management , human resources management, budgeting, operation and managerial decision making.
Credit Point	5
Hours	120
Assessment	Assignment/ Test/ Online MCQ Test+ Submission of engineering design project ( Minor thesis)

### **Part (1) Overview Knowledge of the subject**

Completion of BAE 508 Overview also completes BAE 605 Overview

### **Part (2) Competency Units**

Mgt 502 Operation Management ( 1 pt)

Mgt 503 Production & Operation Management ( 1 pt)

Mgt 504 Project Management ( 1 pt)

Mgt 505 Quality Management and Manufacturing Engineering ( 1 pt)

Mgt 506 Strategic Financial Management ( 1 pt)

#### **Mgt 502 Operation Management ( 1 pt)**

Product design and process selection

Total quality management

JIT & Lean System

Capacity planning

#### **Mgt 503 Production & Operation Management ( 1 pt)**

Planning production

Managing inventories-Material requirement planning

Manufacturing

Dealing with technology and design

Operation strategy

### **Mgt 504 Project Management ( 1 pt)**

Project management

Project organization

Project plan

Progress& performance measurement

Risk management

Documentation/ Audit/ Closure

### **Mgt 505 Quality Management and Manufacturing Engineering ( 1 pt)**

Background

Why quality management

Standards and models

Progress& performance measurement

Strategic quality management

Documentation/ Audit/ Closure

### **Mgt 506 Strategic Financial Management ( 1 pt)**

Capital budgeting

Treatment of uncertainty

Debt valuation and cost of capital

Capital gathering & cost of capital



## BAE 606 Building Service Electrical & Mechanical Engineering

( 2 pt )

Subject Objective	To work effectively in M & E Engineer in building construction & building service industry
Learning outcome	To understand the methods of building construction To understand aircondition & refrigeration systems. To design the water supply system for building To design fire protection, building automation systems
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test/ Building service design project.

### Contents

#### Building Construction 1

Making building  
 Foundations  
 Wood  
 Interior finish for wood light frame construction  
 Wall types  
 Concrete construction

#### Air-conditioning & Refrigeration

Controlling the temperature of mass  
 Electric heat  
 Humidification  
 Air-conditioning –Cooling / Comfort  
 Air-distribution & Balance  
 Reference Tables

#### Sanitation & Water Supply

Design of onsite sanitation system  
 Hydraulic design of sewers

#### Building Electrical & Mechanical System Part 1

Climate comfort and design strategies  
 Thermal control

Designing for heating cooling  
Large building HVAC system  
Water and basic design  
Water supply  
Water and waste  
Fire protection  
Fire protection  
Illumination  
Lighting design  
Signal system

### **Airconditioning and Refrigeration**

Theory of heat  
Solar heat  
Humidification  
Air-conditioning-Cooling  
Air-distribution & Balance  
Air-conditioning Calculation worksheets

## BAE 607 Radio Wave Propagation & Microwave Techniques ( 2 pt )

Subject Objective	This subject presents the theoretical basis for system analysis and gives students skills in using the techniques to design components of communication systems.
Learning outcome	io understand radio & microwave signal types and their representation in the time and frequency domains; modelling systems with differential or difference equations and transforms of the equations; design of antenna, propagation principle
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

#### Radio Wave Propagation

Introduction to radio wave propagation  
 Propagation features/ Overviews  
 Electromagnetic waves, Prpagation through atmosphere  
 Antenna  
 Radio wave propagation fundamentals  
 Antennas and propagation  
 Mobile radio propagation  
 Propagation  
 Wave propagation  
 Radio navigation  
 Wireless communication

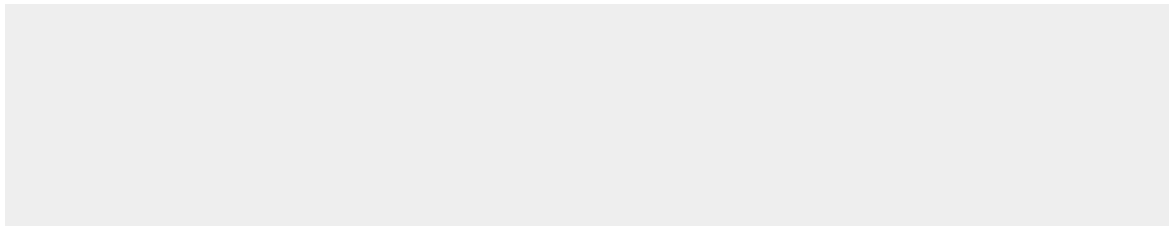
#### Microwave Technique

Microwave antenna and radio wave propagation  
 Distributed element circuit analysis techniques  
 Matching networks  
 Couplers, combiners, dividers  
 Mixers  
 Gain and stability  
 Noise  
 Electromagnetism and RF Propagation  
 Antenna Fundamental  
 Communication system  
 RF Safety  
  
 Rain attenuation of microwave and milli-meter wave signals  
  
 Design of microwave filters (Vol 1)

Mechanically & magnetically tunable microwave filters  
Design of microwave filters (Vol 1)  
General applications of filter structure in microwave engineering  
Properties of some common microwave filter elements

## **BAE 608 Professional Engineer Competency Demonstration Report**

- The students will have to write Engineering Competency Demonstration Report based on their academic study and work experiences gained after completion of academic study.
- Competency Demonstration Report is voluntarily to be submitted. It prepares the students to have the necessary skills to gain the membership of Engineers Australia later.
- The outlines of Competency Demonstration Report will be provided to the students after completion of the last course work subject.



## **Bachelor of Engineering (Civil)**

### **Year (3) Part 1 ADVANCED GENERAL CIVIL ENGINEERING DEGREE LEVEL**

<b>Subjects</b>
<b><u>BAE 401 Advanced Engineering Mathematics</u></b>
<b><u>BAE 402 Calculus</u></b>
<b><u>BAE 403 Engineering Mechanics</u></b>
<b><u>BAE 404 Engineering Materials &amp; Thermodynamics</u></b>
<b><u>BAE 508 Industrial Engineering &amp; Industrial Management</u></b>
<b><u>Renewable Energy Subjects</u></b>  <b>View</b> <a href="http://www.highlightcomputer.com/BEElectricalNew.pdf">http://www.highlightcomputer.com/BEElectricalNew.pdf</a> for the Professional Diploma in Engineering Combined with Renewable Energy Subjects  <b>View</b> <a href="http://www.highlightcomputer.com/re.pdf">http://www.highlightcomputer.com/re.pdf</a> for detailed contents
<b><u>BAE 401 Advanced Engineering Mathematics---</u></b>  Please see under Bachelor of Engineering (Electrical) Program
<b><u>BAE 402 Calculus</u></b>  Please see under Bachelor of Engineering (Electrical) Program
<b><u>BAE 403 Engineering Mechanics</u></b>  Please see under Bachelor of Engineering (Electrical) Program
<b><u>BAE 404 Engineering Materials &amp; Thermodynamics</u></b>  Please see under Bachelor of Engineering (Electrical) Program
<b><u>BAE 508 Industrial Engineering &amp; Industrial Management</u></b>  Please see under Bachelor of Engineering (Electrical) Program

### BAE421 Building Construction Engineering

Subject Objective	<p>To understand the methods of design, construct, maintain, inspect and manage private and public work projects</p> <p>To understand the effects of environments on the properties and performance of construction materials</p>
Learning outcome	<p>To have a basic understanding of construction materials, in relation to their production, properties, testing and application. The main objectives of this subject are to help students acquire fundamental knowledge of the production, physical and engineering properties of construction materials;</p> <p>To understand the construction techniques, methods, schedules &amp; application of construction materials in building construction.</p> <p>To be familiarize with rules, regulations and industrial standards related to building construction.</p>
Credit Point	4
Hours	96
Assessment	Assignment/ Test/ Online MCQ Test/ Building Design Practice Online simulation

#### **Contents**

- Basic skills
- Isometric drawing
- Retaining walls & Post footings
- Stair
- Doors & Windows
- Trusses
- Buildings
- Collar truss
- Howe truss

- Timber
- Steel
- Brick masonry
- Timber
- Brick-nogging
- Steel
- Reinforced concrete
- Floor plans
- Foundation plan
- Cross section
- Front elevation
- Back elevation
- Left side elevation
- Right elevation
- Culverts
- Bridges
- Buildings
- Pipe culvert
- Box culvert
- Slab culvert
- Deck and girder bridge
- Half top plan of culvert
- Half bottom plan of culvert
- Cross section of culvert
- Longitudinal section of culvert



- Elevation of culvert
- Mix Design
- Permissible water cement ratio

## BAE422 Estimating ( 2 pt)

Subject Objective	To understand the methods of costing, material requirement planning in building construction
Learning outcome	To perform the costing, estimating, rate analysis, to interpret the construction drawings & determine the bills and quantities of construction materials.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- Preliminary estimates
- Detailed estimating
  - Culverts
  - Bridges
  - Buildings
  - Roads
- Analysis of rates
- Detailed Estimating
- Buildings
- Up to plinth level
- Above plinth level
- Culverts
- Bridges
- Roads
- Earthworks

- Analysis of Rates
- Total workdone
- Material and labour requirements
- Estimated cost
- Actual PAE or CCE or RFT
- Complete items
- Quantity
- Measurements
- Content calculation
- Rates
- Buildings
- Above plinth level
- Culverts
- Analysis of rates

## BAE423 Fluid Mechanics ( 2 pt)

Subject Objective	This subject aims to enable students to: understand key concepts and fundamental principles, together with the assumptions made in their development, pertaining to fluid behaviour, both in static and flowing conditions; deal effectively with practical engineering situations, including the analysis and design of engineering systems and devices involving fluids and flow; appreciate possible applications and links to other disciplines; and engage in further specialised study or research..
Learning outcome	The subject also aims to enhance interests in fluid phenomena and applications. Topics include: fluid properties and statics; conservation laws of mass, momentum and energy; flow in pipes; external flow (lift and drag); boundary layers; flow measurements; and environmental fluid mechanics
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- *Methods of Application of water*
- *Water Logging, Drainage, land reclamation and irrigation management*
- *Theoretical Concepts of Boundary Layer, Surface Roughness, Velocity Distribution*
- *Gradually varied flow*
- **Scale Model in Hydraulic Engineering**
- Surface irrigation methods
- Subsurface irrigation methods
- Sprinkler irrigation
- Drip or trickle irrigation
- Flooding Methods
- *Wild or uncontrolled Flooding*
- *Controlled Flooding*
- *Flooding from field channels*
- *Border strip methods*

- *Check method*
- *Basin method*
- *Zig-zag method*
- Furrow Method
- Contour Farming

**BAE424 Reinforced Concrete ( 2 pt)**

Subject Objective	To have knowledge of structural design, including the behaviour and design of reinforced concrete (RC) and, to a lesser extent, of prestressed concrete (PSC) elements as parts of overall structures.
Learning outcome	This subject builds on the knowledge of statics, solid mechanics and structural analysis of indeterminate structures that the students have learnt in the previous structural strand subjects. Students learn about the behaviour and design of RC beams, slabs and columns and PSC beams, for both serviceability and strength. Initially, the students are introduced to the Limit State Design philosophy of Australian Standards for structural design and to the material properties of concrete, reinforcement and prestressing steel used for design. RC topics include uncracked section analysis of beams, cracked section analysis of beams (linear-elastic, Desayi-Krishnan, ultimate) for strength and design for strength to AS3600, serviceability design of beams, ductility of singly and doubly reinforced sections, design for shear, T-beams, approximate analysis and design of one-way, two-way slabs and flat slabs/plates, columns (interaction diagrams and slenderness effects), pad footings, cantilever retaining walls and reinforcement detailing. PSC beam topics include history, uncracked section analysis, equivalent loads, load-balancing, cracked section analysis (linear-elastic and ultimate), design for bending, shear, transfer, anchorage.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- Design of Concrete Structures
- FUNDAMENTALS OF FLEXURAL BOND
- Source of bond strength
- Bond Stress Based on Simple Cracked Section Analysis
- Actual Distribution of Flexural Bond Stress
- Development Length
- Factors influencing Development Length
- ACI CODE PROVISION FOR DEVELOPMENT OF TENSION REINFORCEMENT
- ANCHORAGE OF TENSION BARS BY HOOKS
- Development Length and Modification Factors for Hooked Bars

- ANCHORAGE REQUIREMENTS FOR WEB REINFORCEMENT
- Special Requirements near the Point of Zero Moment
- Structural Integrity Provisions

**BAE425+525 Timber Engineering ( 2 pt )**

Subject Objective	To have knowledge of structural design, including the behaviour and design of timber structures in construction engineering.
Learning outcome	This subject builds on the knowledge of statics, solid mechanics and structural analysis of indeterminate structures that the students have learnt in the previous structural strand subjects. Students learn about the behaviour and design of timber beams, slabs and columns for both serviceability and strength. Initially, the students are introduced to the Limit State Design philosophy of Australian Standards for structural design and to the material properties of timber and seasoning the timbers used for design.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- Bending Stress and Deflection of Wood Joists
- Shearing Stress Caused by Stationary Concentrated Load
- Shearing Stress Caused by Moving Concentrated Load
- Strength of Deep Wooden Beams
- Design of a Wood-Plywood Beam
- Determining the Capacity of a Solid Column
- Design of a Solid Wooden Column
- Investigation of a Spaced Column
- Compression on an Oblique Plane
- Design of a Notched Joint
- Allowable Lateral Load on Nails
- Capacity of Lag Screws



- Design of a Bolted splice
- Investigation of a Timber-Connector Joint

**BAE521 Road & Bridge ( 2 pt )**

Subject Objective	To have knowledge of structural design, including the behaviour and design of road & bridge structures in construction engineering.
Learning outcome	<p>This subject builds on the knowledge of statics, solid mechanics and structural analysis of indeterminate structures that the students have learnt in the previous structural strand subjects.</p> <p>Students learn about the behaviour and design of road, bridge, slabs and columns in bridge for both serviceability and strength. Initially, the students are introduced to the Limit State Design philosophy of Australian Standards for structural design and to the material properties of road &amp; bridge construction</p>
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- Hydraulic Design of Bridge
- The establishment of afflux levels
- Back water levels
- Long Contraction
- Yarnell's empirical equation
- The limiting values of  $\sigma$
- Skewed bridges
- Discharge computation
- Scour depth under the bridge
- Scour around bridge piers
- Scour protection works around bridge piers
- Road bridge

## BAE522 Rock Mechanics ( 2 pt )

+

## BAE523 Soil Mechanics ( 2 pt )

Subject Objective	The aim of this subject is to develop students' technical competence in the analysis of soil masses and of structures associated with the soil. The analysis of footings, retaining walls and soil slopes are examples.
Learning outcome	By completing this subject, students should be able to understand the concept of failure in soil and apply it to the analysis of soil masses; critically appraise a problem in order to decide which particular analysis should be used; identify the limitations of their analyses and carry out appropriate solution validation; be responsible for the analysis component of a design team; study the relevant literature and learn to apply new or more complex methods of analysis; and carry out fieldwork in association with subsurface investigations. Topics include introduction to geotechnical design – criteria, codes, engineering judgment; site investigation – planning, fieldwork, techniques; shallow foundations – types, bearing capacity theories, retaining structures; earth pressure theories – Rankine and Coulomb, analysis of gravity walls, cantilever walls, braced excavations; deep foundations – types, load-carrying capacity, settlement, group behaviour, lateral loading; slope stability – failure mechanisms, infinite slopes, rotational failure, remedial measures; and soil improvement – compaction, soil stabilisation, dewatering, preloading.
Credit Point	4
Hours	96
Assessment	Assignment/ Test/ Online MCQ Test/ Design Project

**Contents**

- Soil
- Soil Mechanics
- Geotechnical Engineering

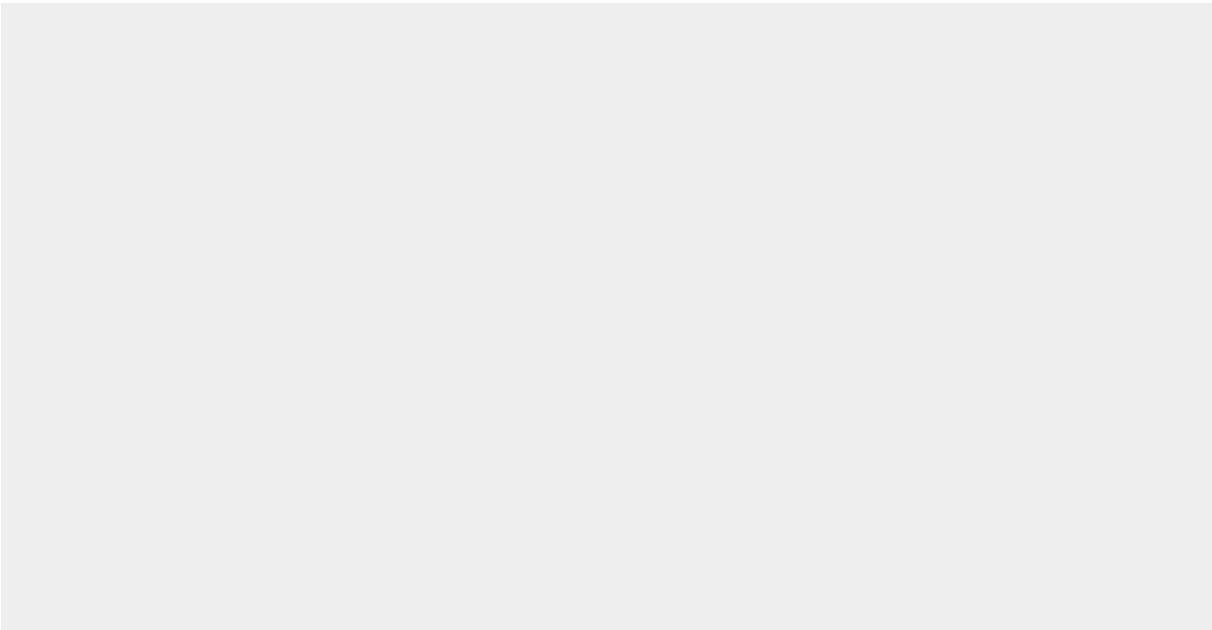
- Subsoil Exploration
- Testing ( In-situ Tests & Laboratory Tests)
- SPT, CPT, Vane Shear Test
- Moisture content
- Index Properties Tests (LL, PL, SL)
- Grain Size Distribution Test ( Sieve Analysis& Hydrometer)
- Specific Gravity
- Shear Strength Tests ( Tri-axial Compression:, Direct Shear, Unconfined Compression:)
- Compaction test, CBR Test
- Consolidation Test, Permeability Test

### BAE 523A Environmental Engineering

Subject Objective	Increasingly biological principles are being integrated as part of engineered systems to create innovative and effective design solutions. This subject teaches fundamental chemical, physical and biological principles which can be used to analyse data and formulate design solutions to environmental problems particularly related to water quality.
Learning outcome	To understand hydrology, soils, ecosystems, material balances, nutrient cycles, risk and water quality engineering. The way this knowledge is utilised by engineers for ecosystem restoration and engineered treatment systems is examined.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

#### Contents

- Distribution of water
- Requirement for good distribution system
- METHOD OF DISTRIBUTION
- Gravity System
- Combined gravity and pumping system
- Pumping system
- PRESSURE IN DISTRIBUTION MAINS
- SYSTEM OF WATER SUPPLY
- CONTINUOUS SYSTEM
- INTERMITTENT SYSTEM
- DRAWBACKS OF INTERMITTENT SYSTEM
- DISTRIBUTION RESERVOIR
- CAPACITY OF DISTRIBUTION RESERVOIR
- **Mac Donald's equation**
- DETERMINATION OF STORAGE CAPACITY

- Hydrograph method
  - Mass curve method
  - HEAD LOSS DUE TO FRICTION
  - Darcy Weisbach formula
  - Hazen William formula
  - Manning's formula
  - Combined Darcy Weisbach and Colebrook White formula
  - LAYOUT OF DISTRIBUTION SYSTEM
  - Dead end system or Tree system
  - Grid iron system or Reticular system
  - Circular system or ring system
  - Radial system
  - ANALYSIS OF PRESSURE IN DISTRIBUTION SYSTEM
  - Equivalent pipe method
  - Hardy cross method
- 

### BAE621 Structural Engineering ( 3 pt )

Subject Objective	This subject covers methods and concepts which are fundamental to the analysis of linear elastic structural frameworks.
Learning outcome	Students learn how load bearing structures respond to the actions of directly applied loads as well as environmental effects such as temperature and foundation settlements. Topics covered include: computing deformations in plane frames using the principle of virtual work; the analysis of statically indeterminate structures using both, the force method as well as the method of moment distribution; and how to establish influence lines and how to use them in finding maximum load effects. A brief introduction to non-linear analysis of structures is also given.
Credit Point	3
Hours	72 hr
Assessment	Assignment/ Test/ Online MCQ Test/ Structural Design

#### **Contents**

- DESIGN OF A SLAB BRIDGE
- FOUNDATION SETTLEMENTS
- Major problems with soil settlement analysis
- Settlement classification
- Immediate settlement& consolidation settlement
- Stresses in soil mass
- Approximate method (2:1 slope)
- Boussinesq's method
- Westergaard's method

### BAE623 Surveying & Traffic Engineering ( 2 pt)

Subject Objective	<p>Surveying</p> <p>The objectives of this subject are to enable students to: become competent in the theory and practice of basic surveying skills.</p> <p>Traffic Engineering</p> <p>To understand the transportation planning principles &amp; methods</p>
Learning outcome	<p>Surveying</p> <p>To be able to use basic surveying equipment such as levels and theodolites and perform the calculations and reductions of observations associated with such equipment; be aware of the likely errors that may occur during observations and of methods to eliminate or minimise such errors; be competent in making distance measurements accurately over short distances using tapes and wires and be aware of the advantages of modern developments in this field such as Electronic Distance-measuring Equipment; be able to perform a simple traverse and associated calculations to find the misclose and proportional accuracy, and the bearing and distance of one missing line; understand and be able to perform relevant calculations for the engineering applications of surveying (horizontal curves, vertical curves, and areas and volumes); and be aware of field techniques used to enable preparation of a detail and contour plan. The stadia method is discussed in class and is used as a data-gathering tool in a practical exercise. The applications of modern computer programs to reduce data for and the plotting of detail and contour plans are introduced. Services of professional surveyors are explained, as are engineering situations where surveyors must be engaged.</p> <p>Traffic Engineering</p> <p>To applt the transportation planning principles &amp; methods in land transport &amp; airport runway designs.</p>
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

### Contents

#### Surveying

Topics include: use of equipment such as levels, theodolites and tapes and wires; calculations related to this equipment, as well as traversing, horizontal curve setting out,



design of vertical curves, areas and volumes and stadia and contouring; modern developments in surveying; and the role of the professional surveyor.

### Traffic Engineering

- Airport Runway Orientation
- Wind Rose Diagram
- Highway Pavement Performance
- Traffic
- Roadbed Soils (Sub grade Material)
- Materials of Construction
- Environment
- Drainage
- Reliability
- Transportation Engineering
- Transportation Planning
- Urban Transportation Planning
- Urban Transportation Planning Process
- Coding and Zoning
- Inventory Studies
- Travel Studies
- Forecasts for the Horizontal Year
- Trip General Analysis
- Trip Distribution Analysis
- Modal Split Analysis
- Network Assignment Analysis
- Evaluation

### BAE624 Water Supply , Sanitation & Finishing ( 2 pt )

Subject Objective	This subject provides civil and environmental engineering students with a detailed knowledge of: (i) water pollution control objectives, (ii) the design of potable water and sewage treatment processes, (iii) sewerage and water reticulation systems, (iv) total water cycle management, and (v) the advanced technologies used in the upgrading of water and wastewater treatment plants, desalination and water and biosolids re-use.
Learning outcome	At the completion of this subject, students understand: public health and environmental objectives in water supply and wastewater disposal; the design concepts for drinking water and sewage treatment plants; sewerage systems and water reticulation systems; and new technologies developed to meet the new water quality and water re-use objectives.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

#### **Contents**

- Water Quality
- Dissolved Oxygen
- BOD (Biochemical Oxygen Demand)
- COD (Chemical Oxygen Demand)
- Water Sampling
- Requirements for good Sampling Procedure

**BAE622 Architecture ( 3 pt )**

Refer any architecture text book , study & prepare the report on practical application problem given by the tutor.

## **Professional Diploma/ Bachelor of Engineering (Mechanical)**

**Year (3)**

### **GENERAL APPLIED ENGINEERING (MECHANICAL) DEGREE**

<b>Subjects</b>
<b><u>BAE 401 Advanced Engineering Mathematics</u></b>
<b><u>BAE 402 Calculus</u></b>
<b><u>BAE 403 Engineering Mechanics</u></b>
<b><u>BAE 404 Engineering Materials &amp; Thermodynamics</u></b>
<b><u>BAE 507 Electro-mechanical Energy Conversion</u></b>
<b><u>BAE 508 Industrial Engineering &amp; Industrial Management</u></b>

The detailed contents of the above subjects can be found under Professional Diploma/ Bachelor of Engineering (Electrical)

### BAE511 Air-conditioning & Refrigeration

Subject Objective	The Heating, Ventilation, Air Condition and Refrigeration Technology or HVAC/R Program is designed to provide hands-on training on the same equipment used by business and industry. In addition, this program is designed to provide the students with the necessary skills required to become a state licensed independent business owner/contractor or for employment in the industry as a technician in residential, commercial, and/or industrial air conditioning, refrigeration and heating.
Learning outcome	Students will have an opportunity to learn various HVAC/R processes that will provide the basic preparation for entry-level jobs in the field of air conditioning, refrigeration, and heating with the initial focus placed on troubleshooting and service. In addition, they will learn the fundamentals of HVAC/R through hands-on training in (1) Theory of temperature control, (2) Electronics, (3) Design and construction of HVAC equipment, (4) Installation, (5) Maintenance, and (6) Repair. As students advance through the program, related topics of indoor air quality, load calculation, system design, and industry code standards will also be covered.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test/ Design Project

#### Contents

- Heat transfer by Conduction
- Convection
- Radition
- Thermal Conductivity,  $k$
- Boundary and Initial Conditions
- Properties and state
- The System
- Internal energy (U)
- Enthalpy (H)
- Work (W)
- Heat (Q)
- Specific Heat Capacity (c)

- Heat Engine
- The characteristic equation of a perfect gas
- Expansion processes
- Adiabatic process
- Isothermal Process

### BAE613 Mechanical Instrumentation Process

Subject Objective	This subject aims to extend students' competence in the design of engineered systems and components, as well as familiarising them with modern design approach methodologies.
Learning outcome	While the emphasis is on realistic engineering-team/client/boss interactions, need exploration, project development and delivery, this subject draws heavily on the expertise the students have developed up until this stage of the course. Furthermore, the subject aims to enhance and polish students' capabilities in dealing with human-centric aspects of the design process.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test/ PLC Program Project

#### Contents

- Problem-solving Methodology
- Matlab Environment
- Initializing Variables
- Data Format
- Printing Matrices
- Useful Commands and Functions
- Fundamental Engineering Computations
- Two-Dimensional Arrays and Matrices
- Variational Method
- Collational Method
- Subdomain Method
- Galerkin's Method
- Least Square Method

**BAE614 Machine Design**

Subject Objective	The objectives of this subject are to give students an understanding of the kinematics and dynamics of rigid bodies in general planar motion, which is typically encountered in design and analysis of mechanical systems, and an elementary understanding of the vibration of mechanical systems, in particular the dynamic behaviour of single-degree-of-freedom mechanical systems with various damping and applied forces.
Learning outcome	Students should be able to: model problems in rigid body planar and spatial kinematics and rigid body planar dynamics; understand energy methods in contrast to direct applications of Newton's second law of motion for setting up a model; understand the physics of a problem formulated from a real mechanical system; appreciate the role of vibration in machines and structures in the engineering world; understand the procedures required to evaluate a vibration problem; and analyse the dynamic response of single-degree-of-freedom mechanical systems. The subject also covers the concept of a rigid body, full nomenclature used in kinematics, two-body velocity equations and velocity diagrams of planar motion; two-body acceleration equations and acceleration diagram; three-body velocity equations and acceleration equations including Coriolis acceleration term; angular velocity acceleration equations including three-dimensional problems; $F=ma$ applied to a rigid-body-dynamics, significance of 'centre of mass', the 'moment' relationship ( $M=Ia$ , etc.); angular momentum, conservation of angular momentum (general case, centre of mass moving, no 'fixed' point); linear and angular impulse problems; energy methods for general planar motion; elementary principles of vibration theory, free vibration of undamped single-degree-of-freedom system; free decay vibration of damped single-degree-of-freedom system; and the forced vibration of single-degree-of-freedom system.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test
TOPICS	Topics covered include the mechanical design process, graphical presentation of engineering ideas and components, computer-aided design, engineering materials and processes and aspects of engineering knowledge. A prototype design-and-build project is a major component of this subject
<u>Specific Contents</u>	<ul style="list-style-type: none"> <li>• Balancing , Forces, Cam Profile</li> <li>• Resultant Effects of Engine, V-Engine Mechanism</li> <li>• Arrangement to balance the primary moment (C.W)</li> <li>• FORCES IN ENGINE, Inertia Forces and D'Alembert's Principle</li> </ul>



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**BAE512 Building Service Water Supply System**

Subject Objective	This subject provides mechanical engineering students with a detailed knowledge of: (i) building water supply control objectives, (ii) the design of potable water supply processes & piping system mechanical design.
Learning outcome	At the completion of this subject, students understand: public health and environmental objectives in water the design concepts for water supply piping design
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- Pressure loss in pipe
- Pressure loss in pipet by loss coefficient method
- Pressure loss in pipe by Equivalent Length Method
- To find the duct pipe by Equal Friction Method
- To find the duct pipe by Balance Capacity Method
- Design the piping system

## BAE311 Plant Engineering (2 pt)

Subject Objective	The objectives of this subject are to: have an understanding of the behaviour of linear (or approximately linear) dynamic systems that are typically encountered in the practice of mechanical engineering; and gain an understanding of how such systems can be controlled, or have their dynamics altered, so as to achieve desired outcomes.
Learning outcome	<p>Topics covered include:</p> <ul style="list-style-type: none"> <li>dynamic models: component block diagram, laplace transform, undamped free and forced vibration of SDOF systems, damped free and forced vibration of SDOF systems, resonance and beats, logarithmic decrement, response under the harmonic motion of the base, coupled-tank systems, vibration of 2DOF systems, vibration isolation, vibration absorbers</li> <li>Matlab and Simulink</li> <li>dynamic response: system modelling diagrams, poles and zeros, effect of pole locations, first order systems, second order systems, effects of zeros and additional poles, stability</li> <li>basic properties of feedback: the basic equations of control, control of steady-state error, PID control, pole placement method</li> <li>the root-locus design method: root-locus of a basic feedback systems, dynamic compensation, examples</li> <li>control system implementation and introduction to advanced control systems.</li> </ul>
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- *Three Degree of freedom*
  - (a) **Newton's method**
  - (b) **Mechanical Impedance method**
  - (c) **Influence coefficients**
  - (d) **Matrix method**

- (e) **Holzer method**
- (f) **Matrix Iteration method**

- **INTRODUCTION TO CONTROL SYSTEM**
- **DIFFERENTIAL EQUATIONS**
- **LINEARIZATION OF A NON-LINEAR FUNCTION**
- **MODELLING OF CONTROL SYSTEMS**
- **FREQUENCY RESPONSE METHODS**
- **Stability**

**BAE312 Design Engineering (Manufacturing) (2 pt)**

This unit is the same as

**BAE621 Structural Engineering ( 3 pt )**

The following contents can be added for manufacturing process

Subject Objective	The objectives of this subject are to: explain and provide examples of manufacturing processes involved in casting, forming machining and joining of materials; identify and describe the manufacturing process by which products are made of different materials: metals, polymers, ceramics and composites; demonstrate improved technical written and graphical communication skills by completion of specified laboratory reports and site visit reports; and demonstrate basic problem-solving skills relating to manufacturing and production.
Learning outcome	Students learn the processes and materials available, as well as a competent and practical approach to evaluating, selecting and recognising the connections between the materials/processes and engineering design
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

All contents in structural engineering

PLUS

- The design and manufacturing processing of products in various environments ranging from low volume to high volume and with various levels of capital investment in the manufacturing system.
- The modern concepts of quality management, including Taguchi methods, after looking at process quality control and its origins.
- Modern metrology equipment and methods are treated in a similar manner: modern equipment and methods and their origins.
- The computer systems on manufacturing. Firstly, students gain some experience with manufacturing in a CAD/CAM environment.
- Industrial robots in environments such as fabrication, welding and assembly. Topics such as: CIM, CAPP, JIT, GT, FMS, MRP, Toyota and Kanban are introduced in a project environment

**BAE313 Environmental Control (2 pt)**

This unit is the same as

[BAE 523A Environmental Engineering](#)

**BAE314 Mechanical Power Generation (2 pt)**

Subject Objective	This subject aims to develop students' fundamental knowledge and understanding of the dynamics of various mechanical power generation systems;
Learning outcome	To provide students with knowledge and skills in vibration testing and data acquisition; facilitate students' in-depth learning of the theory and methods, including modelling, modal analysis, system identification and numerical approaches; familiarise students with techniques and data acquisition system used in vibration testing, measurement, signal processing for determining the dynamic characteristics of a physical system; and enable students to apply the learnt methods to real world applications which include vehicle suspension design, vibration analysis and condition monitoring of rotating machines & application of PLC control system
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents****Mechanical**

Basic vibration theory for the analysis of two or more degrees of freedom multi-body mechanical systems, basic topics on widely-used engineering measurements, data acquisitions, spectrum analysis, signal processing and their applications in vibration control and machine condition monitoring.

**PLC**

- **PLC Basics**
- **PLC Structure**
- **PLC in Comparison with Other Control Systems**
- **PLC's CPU**
- **PLC's Memory**
- **PLC in Comparison with Other Control Systems**
- **PLC's CPU**
- **PLC's Memory**
- **Programming Devices**
- **Programming Languages**

- **Instruction Set**
- **Typical Combinations of Languages**
- **Basic Symbols**
- **Elementary Logic Circuit**
- **PLC's Functions**
- **Industrial Programming**
- **PLC PRACTICE**
- **Selection of PLC**
- **Types of I/O & Capacity Needed**
  
- **Control System Basic**
- **Sequence Control**
- **Automatic Control**
- **Terms of Sequence Control**
- **Basic Knowledge on Contacts**
  
- **INDUSTRIAL MACHINE CONTROLS**

**BAE315 Materials Engineering (2 pt)**

Subject Objective	Mechanical engineers design, construct, maintain, inspect and manage private and public work projects. The common materials used in construction engineering applications and construction are concrete, steel, timber and masonry. It is essential for mechanical engineers to have a basic understanding of these construction materials, in relation to their production, properties, testing and application.
Learning outcome	To help students acquire fundamental knowledge of the production, physical and engineering properties of construction materials; understand the effects of environments on the properties and performance of these materials; familiarise themselves with the relevant engineering standards and other specifications and standards, in relation to the requirements and testing methods and interpretation of test results; improve analytical and communication skills by presenting test reports; select material in relation to specified requirements; and develop an awareness of the use of waste materials in construction.
Credit Point	2
Hours	48
Assessment	Assignment/ Test/ Online MCQ Test

**Contents**

- Load, Stress and Strain, Hook's law ,
- Principal of Superposition
- Tensile Test , Factor of Safety
- Strain Energy, Resilience
- Impact Loads
- Varying Cross-section and Loads
- Strain Energy , Resilience
- Compound Bars
- Temperature Stresses



1. Requirements, variability, selection and standards relating to use of construction materials
2. Steels: production, types, usage, mechanical properties and testing and failure modes

### **Elective (2 pt)**

<b>Subjects</b>
<b>BAE513 Production Technology</b>
<b>BAE611 Maintenance Engineering</b>
<b>BAE612 Engineering Metallurgy</b>

Refer any text book , study & prepare the report on practical application problem given by the tutor.

## **Professional Diploma/ Bachelor of Engineering (Civil-Building Services)**

By mixing the degree level Electrical/ Mechanical & Civil Engineering subjects with Advanced Diploma level Electrical/ Mechanical & Civil subjects relevant to Civil-Building services, the individualized study plan for this professional diploma can be arranged.

## **Professional Diploma/ Bachelor of Engineering (Mechanical-Mechtronics)**

By mixing the degree level Electrical/ Mechanical & Civil Engineering subjects with Advanced Diploma level Electrical/ Mechanical & Civil subjects relevant to Mechanical-Mechatronics, the individualized study plan for this professional diploma can be arranged.

The supporting curriculums from Information Technology & Business Management.

Engineering curriculums are supported by Information Technology & Business Management.

The details of the supporting curriculums are also presented.

## **Diploma/ Advanced Diploma of Engineering**

At the following link, those programs can be viewed

<http://www.highlightcomputer.com/detailedcontent.htm>

## Bachelor of Applied Science (Information Technology)

Year 1+2 Refer Diploma & Advanced Diploma in Information Technology Detailed Contents

## Bachelor of Applied Science (Computer Science & Computer Technology)

### Year (3)

Unit	Topics	Reference	Points
<a href="#">ICT 301</a>	<a href="#">General Electrical Knowledge</a>	EE101	3
<a href="#">ICT 302</a>	<a href="#">Digital Electronics</a>	EE209/H012	3
<a href="#">ICT 303</a>	<a href="#">Amplifier</a>	EE208/H013	3
<a href="#">ICT 304</a>	<a href="#">Material Science</a>	E081	3
<a href="#">EE204</a>	<a href="#">Physics</a>	E046	3
<a href="#">EE201</a>	<a href="#">Mathematics 1</a>	E050	3
<a href="#">EE202</a>	<a href="#">Mathematics 2</a>	E026	3
<a href="#">EE306</a>	<a href="#">Basic Control</a>	I008	3
<a href="#">BAE605</a>	<a href="#">Management</a>		3
<a href="#">BAE408</a>	<a href="#">Analog &amp; Digital Electronics</a>		3
		TOTAL	30

### Year (4)

Unit	Topics	Reference	Points
<a href="#">ICT 401</a>	<a href="#">Advanced Mathematics 1</a>	BAE401	3
<a href="#">ICT 402</a>	<a href="#">Advanced Mathematics 2</a>	BAE402	3
<a href="#">BAE604</a>	<a href="#">Telecommunication System</a>		3
<a href="#">BAE508</a>	<a href="#">Project Management</a>		3
<a href="#">ICT 305</a>	<a href="#">Professional Programming (1) C++</a>		3
<a href="#">ICT 403</a>	<a href="#">Professional Programming (2) Object Oriented</a>		3
<a href="#">ICT 404</a>	<a href="#">Professional Programming (3) Java</a>		3
<a href="#">ICT 405</a>	<a href="#">Professional Practice (1) Network</a>		3
<a href="#">ICT 406</a>	<a href="#">Professional Practice (2) Website</a>		3
<a href="#">ICT 407</a>	<a href="#">Artificial Intelligence</a>		3
		TOTAL	30

## **Refer Diploma & Advanced Diploma in Electrical Engineering Detailed Contents**

### **ICT 305 Professional Programming (1) C++**

- Introduction
- Basic program architecture
- Variables
- Console programs
- Program control
- String
- Arrays
- Object oriented programming
- Classes
- Design of classes
- Methods
- Inheritance
- The class object
- Abstract classes
- Interfaces
- Static members
- More about arrays
- Types
- Enum
- Struct
- Generic types
- Exception handling
- Comments
- Extension methods
- Collection classes
- List Stack
- Linked list
- Dictionary
- Text file
- Binary files
- Object serialization
- Lottery
- Expression

### **ICT 403 Professional Programming (2) Object Oriented**

#### **object-oriented-programming-using-c-sharp**

- Introduction to object oriented programming
- Unified Modelling Language (UML)
- Inheritance & Method Overriding

- Object rules & the importance of polymorphism
- Overloading
- Object oriented software analysis and design
- Generic collection & how to serialize them
- C# development tools
- Creating & using exceptions
- Agile programming
- Case studies

### ICT 404 Professional Programming (3) Java

#### object-oriented-programming-using-java

- Introduction to object oriented programming
- Unified Modelling Language (UML)
- Inheritance & Method Overriding
- Object rules & the importance of polymorphism
- Overloading
- Object oriented software analysis and design
- Collection framework
- Java development tools
- Creating & using exception
- Agile programming
- Case study

### ICT 405 Professional Practice (1) Network

This competency standard unit covers develop services for network clients for emails, internet access, shared resources and the like. It encompasses safe working practices, installing and configuring Domain Name Server (DNS), email servers, Dynamic Host Configuration Protocol (DHCP), remote access servers, Network Address Translation (NAT), directory services, Authentication Servers and documenting development activities.

#### Essential knowledge and associated skills

This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge has been acquired of safe working practices and developing network services.

The extent of the essential knowledge and skills required is given Volume 2 Part 2, Clauses

- **Network infrastructure**

Evidence shall show an understanding of network infrastructure to an extent indicated by the following aspects:

- a. Domain Name Service (DNS) encompassing
  - DNS Server Service
  - Root name server
  - Configuring zones
  - a. *Note:* Examples include configuring for dynamic updates and delegating zone for DNS
  - Caching – only server
  - DNS client
  - Testing DNS Server service
  - Manually creating DNS source
  - Managing and monitoring DNS
- b. Dynamic Host Configuration Protocol (DHCP)
  - Installation of DHCP Server Service
  - DHCP scopes, superscopes and multicast scopes
  - DHCP – DNS integration
  - Active Directory™
  - Managing and monitoring DHCP
- c. Network Infrastructure encompassing
  - Configuring and troubleshooting remote access
  - a. *Note:* Examples include remote access policy, configuration of remote access profile, Virtual Private Network (VPN), multi link connection, routing and remote access for DHCP
  - Managing and monitoring remote access
  - Remote access security
  - *Note.* Examples include authentication protocols, encryption protocols and access policy
- d. Network Protocols encompassing
  - Installation, configuration and troubleshooting of network protocols
  - a. *Note:* Examples include Transmission Control Protocol / Internet Protocol (TCP/IP), NWLink and network bindings
  - Configure TCP/IP packets
  - Configuring and troubleshooting network protocol security and IP Security (IPSec)
  - Managing and monitoring network traffic
- e. Internet Naming Services in a network encompassing
  - Installation, configuring and troubleshooting
  - Configuring Internet Naming Services replication
  - Configuring an application networking interface
  - Managing and monitoring Internet Naming Services
- f. IP Routing encompassing
  - Installation, configuring and troubleshooting of IP routing protocols
  - a. *Note:* This includes updating routing tables, and implementing demand-dial routing
  - Managing and monitoring IP routing
  - a. *Note:* This includes border routing, internal routing and IP routing protocols
- g. Network Address Translation (NAT) encompassing
  - Installing Internet connection sharing

- Installing NAT
- Configure NAT properties and interfaces
- h. Certificate Services encompassing
  - Installing and configuring Certificate Authority
  - Issuing and revoking certificates
  - Removing the Encrypted File System recovery keys

- **Directory services**

Evidence shall show an understanding of directory services to an extent indicated by the following aspects:

- a. Installing and configuring directory services encompassing
  - Installing forests, trees and domains including automatic domain controller
  - Creating sites, subnets, site links and connection objects
  - Configuring server objects including site membership and global catalogue designation
  - Transferring of operations master roles
  - Verification and troubleshooting of directory services installation
  - Implementation of and organisational unit structure
- b. Domain Name Service (DNS) for directory services encompassing
  - Installation and configuration of DNS for directory services
  - a. *Note:* Examples are integration with existing DNS infrastructure, configuration of zones for dynamic and secure dynamic updates and creation and configuration of DNS records
  - Management, monitoring and troubleshooting of DNS
- c. Change and Configuration Management encompassing
  - Implementing and troubleshooting Group Policy
  - a. *Note:* Examples are Group Policy Object (GPO), linking to an existing GPO, delegation of administrative control of Group Policy, filtering of Group Policy settings by using security groups and modification of Group Policy prioritisation
  - Managing and troubleshooting user environments using Group Policy
  - Configuring directory services to support Remote Installation Services (RIS) including configuration of RIS options and security.
- d. Components of a directory service infrastructure encompassing
  - Management of directory objects
  - a. *Note:* Examples are moving objects, publishing resources in the directory service infrastructure, location of objects in the directory service infrastructure, creation and management of objects manually and by scripting, access control of objects and delegation of administrative control
  - Monitoring, optimisation and troubleshooting of the directory services infrastructure performance and replication
  - Backup and restoring directory services infrastructure
  - a. *Note:* Examples are authoritative and non authoritative restoration of directory services, restoration from systems failure and the seizing of operations master roles

- e. Security encompassing
  - Applying security policies using Group Policy
  - Creating, analysing and security modification by using Security Configuration and Analysis snap-in and the Security Templates snap-in
  - Implementation of an audit policy
- f. Monitoring and analysing security events

### Multi-layer switched networks

Evidence shall show an understanding of multi-layer switched networks to an extent indicated by the following aspects:

a) Campus network design encompassing:

- o core layer
- o distribution layer
- o access layer
- o selection of appropriate devices
- o defining workgroups

b) Managing Redundant Links encompassing:

- o Spanning Tree Protocol (STP)
- o Controlling STP in redundant environments
- o STP in Virtual Local Area Network (VLAN) environments
- o Configuring redundant routing protocols for a fault-tolerant routing

Note. An example is Hot Standby routing protocol (HSRP)

c) Fast layer 2 services encompassing:

- o Fast Ethernet
- o Trunking
- o Fast Ether channels

- o Gigabit services
  
- d) Inter VLAN Routing encompassing:
  - o Hardware vs. Software switching
  - o Overview of fast switching technologies
  - o Elements of a multi-layer switch
  - o Configuring multi-layer switches
  
- e) Multicast encompassing:
  - o Multi-cast group management
  - o Configuring multi-cast control at layer 2
  - o Configuring multi-cast control at layer 3
  
- f) Controlling Access to the Campus Network
  
- g) Managing Network Traffic

### ICT 406 Professional Practice (2) Website

This unit covers installation, set up, implementation and provision of on-going support of web services. It encompasses working safely, installing and administering server software and databases, server side scripting, configuring access and security and documenting work activities.

Development, implementation and testing HTML pages with at least four of the following features:

Relative and absolute links, images and table formatting

Cascaded styles sheets



Forms	
New browser windows	
Validation of form data	
<u>Development, implementation and testing of server scripting for database access with at least four of the following features:</u>	
Form data input response	
Form data processing	
Database access	
Output of database table contents	
Insertion of table data to database	
Installation and administration of key features of Web and Web application servers	
	<b>Programming elements</b>
Evidence shall show an understanding of the programming elements to an extent indicated by the following aspects:	
a) Algorithm Design encompassing:	
o Problem Definition	
o Steps in Problem-Solving	
o Modular Design	
o Top-Down Design	
o Flow-Charts and Structured Programming	
o Pseudo-Code	
o Filtering allowable Data Input	

- o Using standard Input & Output methods
- o Object-Oriented Design (brief intro.)
- o Documentation Rationale
- o Acceptable Documentation Method
  
- b) Machine-Code, Assemblers and Compilers
- c) Brief History of Languages & Limitations
- d) Parameters of different programming languages encompassing:
  - o Constants and variables
  - o Data types and declarations
  - o Logical flow control
  - o Detecting breaches of structure
  - o Documentation instruction examples
  - o Procedures and function calls
  - o Parameter-passing
  - o Local and global variables
  - o Object-oriented methods
  - o Classes and objects,
  - o encapsulation and inheritance.
  - o Visual programming methods
  - o General-purpose program libraries

e) Data structures encompassing:

- o Records
- o Arrays
- o File Input/output

f) Testing and validation encompassing:

- o Sequencing the process
- o Inconsistencies detection

Note, An examples is comparing code to documentation, commonly called —Desk-Checking'.

- o Test data selection
- o Modular testing & debug
- o Problems with using

#### Client side programming

Evidence shall show an understanding of client side programming them to an extent indicated by the following aspects:

a) Client server architecture

b) Hyper Text Markup Language (HTML) encompassing:

- o Forms
- o Table
- o Cascading style sheets

c) Hyper Text Markup Language (HTML) scripting encompassing:

- o Exposed object model

- o Events and event handling
- o Objects methods, properties, events
- o Window, document, form, and form elements
- o String object, methods, properties
- o Form field validation

Note: Examples of scripting language are JavaScript and Visual Basic (VB) Script

d) Extendable Markup Language (XML) encompassing:

- o Syntax
- o Structure (well formed XML)
- o Schemas
- o Transformations
- o Parsing Document Object Model (DOM) and Simple API (SAX)
- o Scripting to Document Object Model (DOM)

e) Extendible Stylesheet Language (XSL) generating HTML from XML

f) Wireless thin client programming

Note. Examples include Java2 Micro Edition (JEME), Mobile Information Device Profile (MIDP), Windows CE and Palm OS

- g) Consideration for system architecture
- h) Configurations and profile overview

	<b>Server scripting</b>
Evidence shall show an understanding of server scripting the to an extent indicated by the following aspects:	

- a) Client server architecture
- b) Web and Application Servers
- c) Server scripting languages e.g. JSP, ASP, PHP, Perl
- d) Server script Tags
- e) Integrating script with HTML
- f) Server script object model
- g) Request, Response, Session, Application
- h) Using server objects
- i) Server components
- j) Using components in server scripts
- k) Scope of server components e.g. session, page, application
- l) Component get / set methods
- m) Deploying server components
- n) Advanced server scripting concepts

### Database access

Evidence shall show an understanding of database access to an extent indicated by the following aspects:

a) Relational Databases encompassing:

- o Tables, keys, design rules and normalisation
- o Database management utilities

Note. Example include MSSQL, MYSQL and Access

b) Structural query language (SQL) queries encompassing:

- o Select, insert, update and delete processes
- o Application of conditionals `__where`, `__distinct` and `__like`
- o Create and dropping tables

c) Data Base connectivity components encompassing:

- o Drivers, data sources
- o Database connectivity component loading
- o Query connection and execution
- o ResultSets / RecordSets
- o Rows, columns, cursors, concurrency, pooling
- o Iterating through ResultSets / RecordSets

Note. Example include ODBC, JDBC, ADO

	<b>Web applications and services</b>
Evidence shall show an understanding of web servers to an extent indicated by the following aspects:	
a) Comparison of HTTP servers and platforms	

Note. Examples include IIS and Apache

b) Comparison of Application servers and platforms

Note. Examples include J2EE / tomcat, .NET

c) HTTP Servers encompassing:

- o Installation requirements and methods
- o Security configuration
- o Content publishing and security

d) WEB application technologies encompassing:

- o Server installation and deployment
- o Security

e) Server scripting technologies encompassing:

- o WEB application installation and deployment
- o Application server administration

f) Web services overview encompassing:

- o WEB services XML, API, RPC
- o XML API processing
- o XML DOM
- o SOAP (simple object access protocol)
- o WEB Services Security

## ICT 407 Artificial Intelligence

- Paths to artificial intelligent
- Agents and environment
- Framework for agents environment
- Agent oriented programming languages
- Net logo development
- Movement, Behaviour & Decision making
- Terms of movement
- Animated mapping simulation Embodiment
- Reactive versus cognitive agents
- Emergence, Self organization
- Adaptibility evolution
- Communication
- Search behaviour
- Reasoning rules and logic
- Knowledge & reasoning using decision trees
- Intelligence
- Design objectives for artificial intelligence
- Computer problem solving ability

## **Bachelor of Business**

**Year 1 Refer Diploma in Management Detailed Contents**

**Year 2 Refer Diploma & Advanced Diploma in Information Technology Detailed Contents**

## **YEAR (3)**

### **Bachelor of Business (E-Business & Management)**

The learning system will be based on self study. Read the given references study materials and prepare the project work. You need to read the books in English.

The following units common to MBA course are to be studied.

[Mgt 301    Electronics Business](#)

[Mgt 302    Information Security](#)

[Mgt 303    Management Information System](#)

[Mgt 304    Electronics Commerce](#)

[Mgt 305    Quantitative Methods for Management](#)

[Mgt 306    Human Resources Management](#)

[Mgt 307    Marketing Management](#)

[Mgt 308    Artificial Intelligence](#)



To assess Level 3, you need to write the report of 10 pages each on what you have learnt in the unit.

## YEAR (4)

### Mgt 401 Management Project

### Mgt 402 Electronics Business Project

### Mgt 301 Electronics Business

- Project Objective
- Business Capabilities
- Benefits
- Deliverables & Dependencies
- Costs
- Financial Appraisal
- Timescales & Milestones
- Success Criteria
- Risks
- the impacts of electronic commerce
- drivers and inhibitors of electronic commerce from the perspective of the CEOs
- the impacts of Electronic Commerce on the Industry Supply Chain
- Electronic Commerce Maturity Model

### Mgt 302 Information Security

	Fundamentals of network security
Evidence shall show an understanding of fundamentals of network security to an extent indicated by the following aspects:	
a) Network Security fundamentals	
b) Securing Perimeter Routers	
c) Access Control Lists (ACLs)	
d) Router Authentication, Authorisation and Accounting (AAA) Security	

- e) Intrusion Detection
- f) Internet Protocol (IP) Security
- g) Virtual Private Network (VPN)
- h) Firewalls
- i) Translations and Connections
- j) Access Control Lists for Firewalls
- k) AAA and Firewalls
- l) Intrusion
- m) Intrusion Detection Systems (IDS)
- n) Firewall Failover and System Maintenance
- o) Firewall VPN's
- p) Firewall Device Management

- ❑ Introduction of Computer Networks and Internet :
  - ❖ Overview of the Internet, client/server program, circuit switching, packet switching, physical media, queuing delay and packet loss, TCP/IP Service models, Internet Protocol Stack (Layers)
- ❑ Application Layer :
  - ❖ Service requirements, WWW, HTTP, FTP, Electronic Mail, Domain Name System, Socket programming
- ❑ Transport Layer
  - ❖ Service models, Multiplexing/Demultiplexing, Connection-less transport (UDP), Principles of reliable data transfer, Connection-oriented transport (TCP), TCP congestion control
- ❑ Network Layer :
  - ❖ Routing and forwarding, IP(The Internet Protocol ) IPv4, IPv6 ,Routing algorithms, Routing in the Internet, Multicast
- ❑ Link Layer and Local Area Networks :
  - ❖ Link layer services, Error detection and correction, Multiple Access Protocols, Link layer addressing, Ethernet, Hubs and switches, Point-to-Point Protocol
- ❑ understand principles of network security:
  - ❖ cryptography and its *many* uses beyond “confidentiality”
  - ❖ authentication
  - ❖ message integrity
  - ❖ key distribution

- ❖ security in practice:
- ❖ firewalls
- ❖ security in application, transport, network, link layers
- ❖ key distribution
- ❖ security in practice:
- ❖ firewalls
- ❖ security in application, transport, network, link layers

### Mgt 303 Management Information System (MIS)

- The role of information system
- Hardware & software in enterprise
- Database management system
- Business Telecommunication system
- Communication network
- Network application
- Contemporary mobile service
- Examples of information systems
- Management of MIS
- Managing the Digital Firm
- Emergence of the Digital Firm
- The business information value chain
- A Business Perspective on Information Systems
- Variation in returns on information technology investment
- Sociotechnical Systems
- New Options for Organizational Design:
- The Digital Firm and the Collaborative Enterprise
- Redesigned workflow for insurance underwriting
- The Challenges of Information Systems: Key Management issues

### Mgt 304 Electronics Commerce

- **Types of E-commerce**
- **Understanding E-commerce: Organizing Themes**
- **E-commerce Business Models and Concepts**
- **The Internet and World Wide Web: E-commerce Infrastructure**
- **Building an E-commerce Web Site**

- **Online Security and Payment Systems**
- **Marketing Communications**
- **E-commerce Marketing Concepts**
- **Ethical, Social, and Political Issues in E-commerce**
- **Online Retail and Services**
- **E-commerce Business Models and Concepts**
- **The Internet and World Wide Web: E-commerce Infrastructure**
- **Security and Encryption**
- **E-commerce Payment Systems**
- **E-commerce Marketing Communications**
- **Ethical, Social, and Political Issues in E-commerce**
- **Online Service Industries**
- **Supply Chain Management and Collaborative Commerce**
- **Auctions, Portals, and Communities**
- **Online Content and Media**
- **Social Networks, Auctions, and Portals**
- **Online Content Providers: Digital Media**
- 

### **Mgt 305    Quantitative Methods for Management**

- Research approach
- Data source
- Qualitative method
- Quantitative Methods
- Experiment research & observation
- Questionnaires survey
- Sampling
- Survey analysis
- Statistical analysis
- Writing research report
  
- Prescriptive Process Models
- Agile Development

## Mgt 306 Human Resources Management

- Meeting Present and Emerging Strategic Human Resource Challenges
- **Managing Work Flow and Conducting Job Analysis**
- Understanding Equal Opportunity and the Legal Environment
- Managing Diversity
- Recruiting and Selecting Employees
- Appraising and Managing Performance
- Rewarding Performance
- Managing Compensation

## Mgt 307 Marketing Management

- Company (Distributor) background (e.g. brief history, nature of business, etc.)
- Marketing objective(s) on the Chosen product/service
- S.W.O.T Analysis
- Target customers
- Product Positioning in the market
- Describe the current marketing mix:
  - Product
  - Pricing
  - Distribution
  - Marketing Communications (Promotion)
- overall competitive strategy
- planning the details of the marketing mix.
- sales& marketing materials
- understanding of company's competitors
- Marketing Recommendations for improvement
- marketing strategies

## **Mgt 308    Artificial Intelligence**

This is the same as

<a href="#"><u>ICT 407</u></a>	<a href="#"><u>Artificial Intelligence</u></a>
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## **Mgt 401    Management Project**

## **Mgt 402    Electronics Business Project**

Two reports one for Management for (Mgt 303+Mgt 305+Mgt 306) & another for Electronics Business + Marketing (Mgt 301+Mgt 302+Mgt 304+Mgt 307+Mgt 308) subjects are required to be presented.

Each should contain 4000 to 6000 words of how you pursue the study in Management,, Marketing, Electronics Business subjects should be described.

The project should contain management plans, business plan & performance, task, job procedures IT integration etc of the topics of your choices.

<http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc>

[Bachelor of Engineering \(Electrical\)](#)

[Bachelor of Engineering \(Civil\)](#)

[Bachelor of Engineering \(Mechanical\)](#)

[Bachelor of Engineering \(Civil-Building Services\)](#)

[Bachelor of Engineering \(Mechanical-Mechatronics\)](#)

[Bachelor of Applied Science \(Information Technology\)](#)

[Bachelor of Business](#)

**[Bachelor of Engineering \(Electrical\)](#)**

**[YEAR 3 +4](#)**

<b>Subjects</b>
<a href="#"><u>BAE 401 Advanced Engineering Mathematics</u></a>
<a href="#"><u>BAE 402 Calculus</u></a>
<a href="#"><u>BAE 403 Engineering Mechanics</u></a>
<a href="#"><u>BAE 404 Engineering Materials &amp; Thermodynamics</u></a>
<a href="#"><u>BAE 405 Advanced Circuit Analysis</u></a>
<a href="#"><u>BAE 406 Electro-mechanics</u></a>
<a href="#"><u>BAE 407 Advanced Electro-magnetics Field &amp; Materials</u></a>
<a href="#"><u>BAE 408 Analogue &amp; Digital Electronics</u></a>
<a href="#"><u>BAE 501 Advanced Power Systems &amp; Power Transmission Networks</u></a>
<a href="#"><u>BAE 502 Linear System</u></a>
<a href="#"><u>BAE 503 Control System</u></a>

<a href="#"><u>BAE 504 Power System Analysis</u></a>
<a href="#"><u>BAE 505 Power System Optimization</u></a>
<a href="#"><u>BAE 506 Power System Stability &amp; Protection</u></a>
<a href="#"><u>BAE 507 Electro-mechanical Energy Conversion</u></a>
<a href="#"><u>BAE 508 Industrial Engineering &amp; Industrial Management</u></a>
<a href="#"><u>BAE 601 Computer Programming</u></a>
<a href="#"><u>BAE 602 Computer Network</u></a>
<a href="#"><u>BAE 603 Software Engineering</u></a>
<a href="#"><u>BAE 604 Telecommunication Engineering</u></a>
<a href="#"><u>BAE 605 Engineering Management</u></a>
<a href="#"><u>BAE 606 Building Service Electrical &amp; Mechanical Engineering</u></a>
<a href="#"><u>BAE 607 Radio Wave Propagation &amp; Microwave Techniques</u></a>
<a href="#"><u>BAE 608 Professional Engineer Competency Demonstration Report</u></a>

**Bachelor of Engineering (Civil)**

### **Year (3) Part 1 ADVANCED GENERAL CIVIL ENGINEERING DEGREE LEVEL**

<b>Subjects</b>
<a href="#"><u>BAE 401 Advanced Engineering Mathematics</u></a>
<a href="#"><u>BAE 402 Calculus</u></a>



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[BAE 403 Engineering Mechanics](#)

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[BAE 404 Engineering Materials & Thermodynamics](#)

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[BAE 508 Industrial Engineering & Industrial Management](#)

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**Year (3) Part 2 ADVANCED GENERAL CIVIL ENGINEERING DEGREE LEVEL ( 18 Pt)**

[BAE421 Building Construction Engineering \( 4 pt\)](#)

[BAE422 Estimating \( 2 pt\)](#)

[BAE423 Fluid Mechanics \( 2 pt\)](#)

[BAE424 Reinforced Concrete \( 2 pt\)](#)

[BAE425 Timber Engineering \( 2 pt \)](#)

[BAE521 Road & Bridge \( 2 pt \)](#)

[BAE522 Rock Mechanics \( 2 pt \)](#)

[BAE523 Soil Mechanics \( 2 pt \)](#)

[BAE 523A Environmental Engineering](#)

**TOTAL 35 Pt**

**Year (4) Part 1**

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[AE 601 Computer Programming](#)

---

[AE 605 Engineering Management](#)

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[AE 606 Building Service Electrical & Mechanical Engineering](#)

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AE 609 Design Project

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total Credit points in this group

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### **Year (4) Part 1**

**( 12 Pt)**

[BAE621 Structural Engineering \( 3 pt \)](#)

[BAE623 Surveying & Traffic Engineering \( 2 pt\)](#)

[BAE624 Water Supply , Sanitation & Finishing \( 2 pt \)](#)

[BAE 608 Engineering Competency Demonstration Report Writing \(2pt\)](#)

### **SELF STUDY**

[BAE622 Architecture \( 3 pt \)](#)

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**Bachelor of Engineering (Mechanical)**

### **Year (3)**

**GENERAL APPLIED ENGINEERING (MECHANICAL) DEGREE**

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**Subjects**

---

[AE 401 Advanced Engineering Mathematics](#)

---

[AE 402 Calculus](#)

---

[AE 403 Engineering Mechanics](#)

---

[\E 404 Engineering Materials & Thermodynamics](#)

---

[\E 507 Electro-mechanical Energy Conversion](#)

---

[\E 508 Industrial Engineering & Industrial Management](#)

---

[\E511 Air-conditioning & Refrigeration](#) Part 1

---

[\E613 Mechanical Instrumentation Process](#)

---

[\E614 Machine Design](#)

---

[\E512 Building Service Water Supply System](#)

---

[\E511 Air-conditioning & Refrigeration](#) Part 2

---

[\E613 Mechanical Instrumentation Process](#)

---

---

**Year (4) Part 1 BE (Mechanical + General Related Subjects)**

---

[\E 601 Computer Programming](#)

---

[\E 602 Computer Network](#)

---

[\E 603 Software Engineering](#)

---

[\E 605 Engineering Management](#)

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[\E 606 Building Service Electrical & Mechanical Engineering](#)

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**Year (4) Part 2**

**Bachelor of Engineering (Mechanical) Specialization ( 13 pt)**

[BAE311 Plant Engineering \(2 pt\)](#)

[BAE312 Design Engineering \(2 pt\)](#)

[BAE313 Environmental Control \(2 pt\)](#)

[BAE314 Mechanical Power Generation \(2 pt\)](#)

[BAE315 Materials Engineering \(2 pt\) Part 1 Part 2](#)

[BAE 608 Engineering Competency Demonstration Report Writing \(3 pt\)](#)

### **Elective (2 pt)**

<b>Subjects</b>
<a href="#"><u>BAE513 Production Technology</u></a>
<a href="#"><u>BAE611 Maintenance Engineering</u></a>
<a href="#"><u>BAE612 Engineering Metallurgy</u></a>

### **Bachelor of Engineering (Civil-Building Services)**

### **STAGE (3) BASIC ELECTRICAL & ELECTRONICS ENGINEERING ( 18 Pt)**

#### **REFER DIPLOMA/ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING DETAILED CONTENTS**

EE101 DC Circuit Problems

EE102 Basic Electrical Fitting & Wiring

EE103 Basic Electrical Drafting

EE104 Electrical Equipments Safety Protection

EE105 Electrical Installation Design

EE107 Electrical Equipments

EE106 Advanced Electrical Wiring

EE108 Electrical Fault Finding

EE109 Electrical Control Circuits

EE111 Electromagnetism & Basic Electrical Machines

EE112 Alternating Current Principle

EE113 Electrical Fundamental

EE115 Basic Analogue & Digital Electronics

EE116 Process Control System

EE117 Solar Electrical System

EE119 Electrical Risk Assessment

EE120 Electrical Contracting & Specifications

EE308 Sustainability

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### **STAGE (4 A) ADVANCED MECHANICAL ENGINEERING STUDY ( 6Pt)**

**[REFER DIPLOMA/ADVANCED DIPLOMA IN MECHANICAL ENGINEERING DETAILED CONTENTS](#)**

ME 102 Engineering Thermodynamics

ME 109 Engineering Drawing

ME 107 Heat Transfer

ME 201 Introduction to Fluid Mechanics

ME 204 Engineering Fluid Mechanics

ME 301 Fluid Dynamics

## STAGE (4B)ADVANCED ELECTRICAL & ELECTRONICS ENGINEERING STUDY

(ADVANCED DIPLOMA) ( 4 pt)

REFER DIPLOMA/ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING DETAILED CONTENTS

EE201 Engineering Mathematics

EE204 Engineering Physics

EE302 Advanced Engineering Mathematics

EE307 Energy Efficient Building Design

## STAGE (5)BACHELOR OF APPLIED ENGINEERING (BUILDING SERVICE) DEGREE ( 32 pt)

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Subjects

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[\E 401 Advanced Engineering Mathematics](#)

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[\E 402 Calculus](#)

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[\E 403 Engineering Mechanics](#)

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[\E 404 Engineering Materials & Thermodynamics](#)

---

[\E 508 Industrial Engineering & Industrial Management](#)

---

[\E 601 Computer Programming](#)

---

[\E 605 Engineering Management](#)

---

[\E 606 Building Service Electrical & Mechanical Engineering](#)

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[\E 609 Design Project](#)

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[Bachelor of Engineering \(Mechanical-Mechatronics\)](#)

## [Advanced Diploma of Mechanical Engineering\)](#)

[REFER DIPLOMA/ADVANCED DIPLOMA IN ELECTRICAL ENGINEERING DETAILED CONTENTS](#)

[REFER DIPLOMA/ADVANCED DIPLOMA IN MECHANICAL ENGINEERING DETAILED CONTENTS](#)

(1) **ME104** Principle of Machine

(2) EE624 Process Control

[EE115 Basic Analogue & Digital Electronics](#)

[EE116 Process Control System](#)

(3) ME 334 Airconditioning and Refrigeration

(4) ME202 Aerodynamics

(5) ME 302 Automation-and-Robotics

(6) ME 303 Computer Aided Design and Manufacturing

(7) ME 234 Wind Turbines

(8) ME 201 Introduction to Fluid Mechanics

(9) ME 204 Engineering Fluid Mechanics +  
ME 301 Fluid Dynamics

(10) ME 206 Introduction to Turbo Machinery

(11) ME 205 Manufacturing Processes & Materials

(12) ME 207 Chemical Thermodynamics

(13) ME 208 Hydrocarbons

(14) ME 634 Pneumatics

- (15) ME 203 Control
- (16) ME 534 Numerical Control
- (17) ME 434 Mechtronics-Robotics
- (18)EE 617 Building Electrical and Mechanical System
- (19)EE105 Electrical Installation Design
- EE107 Electrical Equipments

### EE105 Electrical Installation Design

### EE107 Electrical Equipments

- (20)EE106 Advanced Electrical Wiring
- (21) EE116 Process Control
- (22) EE117 Solar Electrical System
- (23) EE119 Electrical Risk Assessment
- EE120 Electrical Contracting
- (24) ME 109 Engineering Drawing
- EE301 Advanced Electrical Drafting
- (25) EE121 Electronics Power Control Devices
- (26) EE206 AC
- (27) EE207 DC
- (28)EE202 Electrical Circuits
- (29)EE203 Three Phase Power Circuits

- (30) ME 305 Corrosion Prevention
- (31) ME 306 Theory-of-waves-in- materials



# Bachelor of Applied Engineering (Mechanical-Mechatronics)

## Subjects

[AE 401 Advanced Engineering Mathematics](#)

[AE 402 Calculus](#)

[AE 403 Engineering Mechanics](#)

[AE 404 Engineering Materials & Thermodynamics](#)

[AE 405 Advanced Circuit Analysis](#)

[AE 406 Electro-mechanics](#)

[AE 408 Analogue & Digital Electronics](#)

[AE 502 Linear System](#)

[AE 503 Control System](#)

[AE 507 Electro-mechanical Energy Conversion](#)

[AE 508 Industrial Engineering & Industrial Management](#)

[AE 601 Computer Programming](#)

[AE 602 Computer Network](#)

[AE 603 Software Engineering](#)

[AE 604 Telecommunication Engineering](#)

[AE 605 Engineering Management](#)

### BAE 401 Advanced Engineering Mathematics (9 pt)

#### An Introduction to theory of complex variables

Complex numbers

Functions

Differentiability

Integration in the complex plane

Integral theorems

Power series

Introduction of rational functions of trigonometric functions.

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#### Continuous distribution

Exponential distribution

Normal distribution

Gamma distribution

Convergence in distribution

F distribution

#### Discrete distribution

Binomial distribution

Poisson distribution

## Elementary linear algebra

Algebra in  $F^n$  Example problems

Geometric meaning of vectors

Geometric meaning of vector addition

Distance between points in  $R^n$  Length of vector

Geometric meaning of scalar multiplication

Dot product

Cross product

System of equation geometry

System of equation – Algebraic operation

Matrice arithmetic

Determinants –Basic technique & properties

## Integration and differential equations

List of integrals

Introduction to background

Theorem of integration

Improper integrals

Improper integral problems

Integration of rational functions

Differential equations

First order ordinary differential equations

Homogenous equations

The general linear equations

## Random variables

Simple introduction examples

Problems

Frequency and distribution functions in 1 dimension

## Mathematical modelling preliminary

Introduction

Discrete time model

## Maths 301 Introduction to Complex Variables

The residue Theorem

Fourier Transform

Integral theorem of complex analysis with applications to the evaluation of real integral

Introduction

Integral theorems – The green Theorem

Cauchy's integral theorem

Cauchy's residue theorem

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## Maths 302 Elementary Linear Algebra

A formula for the inverse

Cramer's rule

Example 6.2.3 , 6.2.4 , 6.2.6, 6.2.7

Rank of a matrix

Example 8.2.9 , 8.2.10, 8.3.3 , 8.3.5, 8.3.6, 8.3.7, 8.3.8

Linear independence and bases

Linear transformation

Constructing the matrix of a linear transformation

Linear programming

### Maths 401 Continuous Distribution

$\chi^2$  Distribution

F Distribution

F Distribution & "t" Distribution

Estimation of parameters

### Maths 402 Discrete Distribution

Geometric distribution

Pascal distribution

Negative binomial distribution

Hyper geometric distribution

### Maths 303 Essential Engineering Mathematics

Vectors and matrices

Functions and limits , Example problems

Calculation of one variable ( Part 1) Differentiation,

Calculation of one variable ( Part 1) Integration,

Calculus of many variables,

Ordinary differential equations,

Complex function theory

### Maths 501 Introduction to probability

Theoretical background

Playing card

Binomial distribution

Lotto Example

Conditional probabilities –Baye's formula

### Maths 501 Linear algebra and matrices

Linear transformation matrices

Definition 2.1.1 to 2.1.3

$i, j$  Entry of product Definition 2.1.8

Rank of matrices

Row operations

### Maths 502 Introductory Finite Difference Method for PDE

Partial differential equations. Example problems

Taylor theorem

Iterative solution methods

Jacobi Iteration

Gauss Seidel Iteration

Successive Relaxation method

### Maths 601 Random Variables

Theoretical results

Frequencies and distribution ( 1 dimension )

Function of random variables

## BAE 402 Calculus ( 3 pt)

### Calculus 1 a .pdf

Differentiation, Example problems

Integration, Example problems

Simple differential equations, Example problems

### Calculus 2 a .pdf

Integration of trigonometric polynomials

Complex decomposition of a fraction between two polynomials

Chain rule

Calculation of the directional derivatives

An overview of integration in the plane and in the space

Line integrals

Surface integral

Green's theorem in the plane

### Calculus 2b 1.pdf

The range of functions in several variables

Line integral

Space integral

Line integral

[Calculus 3b. pdf](#)

Power series method in solution of problems, Example problems

[Calculus 3C 1. pdf](#)

Sequence in general

[Calculus 4C 1. pdf](#)

Sum function of Fourier series

[Maths 303 Engineering Mathematics](#)

Introduction and background

Integration of rational functions

Integration of trigonometric functions

Differential equations

[Maths 403 Second Order Differential Equations](#)

Power series solutions

Bessel equations and Bessel functions

Legendre polynomials

Differential equations

## **BAE 403 Engineering Mechanics ( 1 pt)**

Stress Example

Stress lectures

Strain All examples



Strain lessons

Mechanical properties of materials

Mechanical properties of materials

Axial members

Axial members

Torsion of shaft

Torsion of shaft

Symmetric bending of beams

Symmetric bending of beams

Deflection of symmetric beams

Deflection of symmetric beams

Stress transformation

Stress transformation

Strain transformation

Strain transformation

Design and failure

Design and failure

Stability of columns

Stability of columns

Newton motion

One dimensional motion

Simple harmonic motion

Damped oscillation

$$X(t) = A r e^{-rt/l} \cos (wt - \delta_r)$$

Rotating reference frame equations

Modern Mechanics Part 1

Modern Mechanics Part 2

Modern Mechanics Part 3

Modern Mechanics Part 4

Modern Mechanics Part A

Modern Mechanics Part B

Modern Mechanics Part C

-

ME 301 Applied Mathematics

Kinematics

Projectiles

Forces

Resistance forces

Resolving forces

Rigid bodies

Centre of gravity

Momentum

Energy

Circular motion

Gravitation and planetary motion

The language of vectors

**BAE 404 Engineering Materials & Thermodynamics ( 3 pt )**

## Heat Transfer. pdf

- (1) Heat transfer mode Example problems
- (2) Conduction Example problems
- (3) Convection Example problems
- (4) Radiation Example problems
- (5) Heat Exchanger Example problems

## Theory of waves in materials.pdf

Materials-Preliminary

Materials- Basic mechanical properties

Basic wave phenomena

Harmonic waves

Elastic volume and shear waves

Rayleigh Elastic waves

## Engineering Thermodynamics

General definition

Thermodynamics-Working fluids

Laws of Thermodynamics

Worked Example 3.1 to 3.25

## ME434 Wind Turbines

Wind Energy

Theory of wind energy

Wind turbine types and components

Wind energy measurement, Wheel encoder Worked

### ME634 Pneumatics

Principle of pneumatics

Linear actuators

Flow control

Pneumatics sensors

Pneumatics symbols

### BAE 405 Advanced Circuit Analysis ( 3 pt )

DC Circuit Analysis

Circuit Theory

Modulators

Analog, digital signals , electric current, power summary

Circuit analysis, electric potential, electric power, sign convention, electric source, Kirchhoff's law

Circuit elements, characteristics KCL, KVL

Resistor (Series, parallel, wheatstone bridge, Nodal analysis

Nodal analysis, mesh analysis

Superposition theorem, Thevenin's theorem, Norton theorem, Maximum power transfer theorem,

Operational amplifier

Inverting amplifier circuit, Summing amplifier, Differential amplifier

Capacitor, Op-amp integrator, stored energy

Mutual inductance, time constant, transient

Transient response of 1 st order circuit, RL transient analysis, sequential switching

RC/RL Circuit , Propagation, Delay, DRAM

Semi conductor

PN Junction diode

Light emitting diode

MOSFET

Digital signal

CMOS Digital circuit

Combinational logic circuits

Flip flops

Propagation delay in timing diagram

Integrated circuit fabrication

Device isolation methods

Interconnected resistance and capacitance

Transistor scaling

Integrated circuit design for application in communications

Small signal amplifiers

Network noise intermodulation distortion

CAD for noise analysis

Sensors & Detectors

Low noise design methodology

Oscillators

Modulators and demodulators

Concepts in Electrical Circuit

Circuit theorem

Sinusoids & phasors

Frequency response

### EE303 Engineering Circuit Analysis

Basic circuits

Basic Nodal and Mesh analysis

Linear and Superposition/ Source Transformation

RL/ RC Circuits

RLC Circuits

Sinusoidal steady state analysis

AC Power Circuit Analysis

Polyphase Circuits

Magnetically coupled circuits

Complex Frequency / Laplace Transform

Laplace Transform

Circuit analysis in “ S “ domain

Pole/ Zero constellation

Frequency Response

Two ports network

Fourier Circuit Analysis

Use of symmetry theory

### EE404 Electrical Measurement ( 1 pt )

Measurement of inductance and capacitance

Measurement of resistance

Magnetic measurement

High voltage measurement and tesating

Location of cable fault

Measurement of power

Measurement of energy

## BAE 406 Electro-mechanics ( 2 pt )

Electro-mechanic -1.0.1 Scope of application

1.1 Electro-magnetic theory

1.1.1a Magnetic field system, Table 1.1

1.1.1.b Electric field system Table 1.2

Lumped electro-mechanical elements

Lumped parameter-electro-mechanic

Rotating machines

Lumped parameter-electro mechanical dynamics

## EE 502 Electrical Machines

DC Generator, Example problems

DC Motors, Example problems

Efficiency & heating of electrical machines, Example problems

Three phase transformer, Example problems

Three phase induction motors, Example problems

Synchronous generators, Example problems

Synchronous motors, Example problems

Basic of industrial motor control, Example problems

## ME 301 Machine Principle

Rotating machines  
Machinery mounting  
Balancing  
Bearing  
Power transmission

## BAE 407 Advanced Electro-magnetics Field & Materials ( 1 pt)

Electric field  
Electrostatic potential  
Dipole and quadrature pole movements  
Batteries, resistors, ohm laws  
Capacitors  
Magnetic effect of an electric current  
Force on current in a magnetic field  
Electro-dynamics of moving bodies  
Magnetic potential  
Electro-magnetic Induction  
Dimensions  
Properties of magnetic materials  
Alternating current  
Laplace transform  
Maxwell Equation  
CGS Electricity & Magnetism  
Magnetic dipole movement



## Outlines

Electric field

Electrostatic Energy

Laplace's equation (1)

Laplace's equation (2)

Remarks on units

Green's functions

Multipole expansion

Electro-static in matter

Boundary condition

Magneto statics (1)

Magneto statics (2)

Macroscopic magneto statics

Maxwell's equation

DISC movement

Electro-magnetic plane waves

Reflection & refraction

Casual relation between D & E

Wave guides and load cavities

Electromagnetic radiation and scattering (1)

Electromagnetic radiation and scattering (2)

Scattering by small di-electric sphere

Electro-magnetism

Electro magnetic fields and moving charges

Multipole expansion

Magnetic constants and materials

Ampere law

Brief history of electro magnetism

Gauss's law

Numerical solutions to Laplace's equation

Small current loop

Curvilinear co-ordinate system

Problems

Dielectric tensors and constants

Analytic solution to Laplace equation

Magnetostatic boundary condition

Electrostatic boundary condition

Electromagnetic field

The gradient vector

Maxwell's equation

Electro-magnetic wave propagation

BAE 407 Advanced Electro-magnetic Field & Materials

Electro dynamics

Introduction to electro statics

Boundary value problems in electro statics (1)

Boundary value problems in electro statics (2)

Multi-poles Macroscopic media –Dielectrics

Static and stationary magnetic fields

Maxwell's equations

Plane wave and wave propagation

Wave guides and cavities

Radiation

The special theory of relativity

Particles and field dynamics

Charged particle collisions-Energy loss, Scattering

Radiation by moving charges

## BAE 407 Advanced Electro-magnetic Field & Materials

EMFT book.pdf

Summary of electro statics

Potential

Electro-magnetics waves

Classical optics

Conservation Law

Conservation Law

Conservation Law

Generic wave

Electromagnetic waves in vacuum

Electromagnetic waves in matter

Electromagnetic waves in conductor

Electromagnetic waves propagation

Electromagnetic waves field

Wave guides

Electromagnetic waves radiation

Electro-dynamics

Frequency

## EE407 Electro-magnetism

Di-electric materials and capacitance

Transmission Lines

Maxwell's equations and electro-magnetic waves

Electrostatics

Di-electric

Transmission Line

Maxwell Equation

## BAE 408 Analogue & Digital Electronics ( 5 pt )

Semi conductor devices

Digital circuits

Power Electronics Converters

Introduction to Electronic Engineering

Power Electronics & Applied Electronics

Digital System

Digital Signal Processing

Digital Image Processing

Electronics Circuits

Power Electronics Control

Digital System

Number system basics

Introduction to logic gates

Combinational logic

Karnaugh map

Arithmetic circuit

Coders/ Multiplexers

Counters

### Digital Signal Processing

Signal system representation

Fourier/ Z Transform

Discrete Fourier Transform

Principle of filter design

FIR filter design

### Digital Image Processing

Introduction

Intensity transformation & spatial filtering

Filtering in frequency domain

Discrete Fourier Transform

Butterworth Low Pass Filter

Butterworth High Pass Filter

Image restoration / Noise analysis

### Digital Image Processing

Introduction

Intensity transformation & spatial filtering

Filtering in frequency domain

Discrete Fourier Transform  
Butterworth Low Pass Filter  
Butterworth High Pass Filter  
Image restoration / Noise analysis

## **BAE 501 Advanced Power Systems & Power Transmission Networks ( 3 pt )**

Principle of Power System

Source of energy

Steam power station

Hydro power station

Diesel power station

Nuclear power station

Gas turbine power station

Variable load on power station

Interconnected grid system

Economic of power generation

Importance of high load factor

Tariffs

PF improvement

Supply system

Mechanical design of OH line

Corona

Sag

Electrical design of OH line

Performance of transmission line

Line generalised constants

UG cable

Capacitance in 3 core cable

Distribution system

DC Distribution

DC System

AC Distribution

Voltage control

Introduction to switch gear

Circuit breaker

Fuse

Relays

Protection transformers

Substation

### [Advanced Power System –Power Transmission Network](#)

Consequence of power quality

Power quality & applications

Power quality analysis

Power quality monitoring

Management, control and automation of power quality improvement

### [Electrical generation and distribution system and power quality disturbances](#)

Integration of hybrid distribution units in power grid

Optimal location and control of multi hybrid model based wind shunt facts to enhance power quality

Power quality and voltage sags indices in electrical power systems.

## Power Transmission Line

- AASR Conductors
- ARC Fault
- Circuit breaker rating
- Current transformer
- Electrical bushing
- Electrical fuse
- Induction motor model
- IP rating
- Load factor
- Load redundancy
- Over current protection
- Partial discharge
- Per unit system
- Phase conversion
- Resonance
- RL Switching
- Sequence network
- Short circuit calculation
- Symmetrical component
- Transformer impedance

## Power Transmission Line 2

- AC Power Transmission
- Insulation Resistance test
- Dry type transformer



Electrical software

Insulation resistance test

## Electrical Power Generation System

Designing for high temperature and pressure

Turbine components

Burning of fuel

Facts about fuel

Burning gas and oil

Selecting fuel

Water treatment

Heat exchanger

Computer control

System economics

## Power System

Transmission & distribution system

Control of power and frequency

Control of voltage and reactive power

Load flow

Faults

System stability

Over voltage and insulation requirement

Substations and protection

## Electrical Power

Power line

Neutral earthing

Switch gear

Instrument

Protection

Power system

Generator response to system faults

Calculation of fault current

Symmetrical components

Commissioning electrical plant

### Power System Technology

Power system fundamental

Modern power system

Power control devices

Operational control system

Power conversion

Specialised testing & measurement devices

### Generation , Transmission and Distribution of Electric Power

Voltage transient and line surge

Transmission of electrical energy

Corona

UG Cable

Voltage drop in distribution

Regulation

Line and machine chart

Voltage regulation stability

Fault calculation in line

## Electrical Power Distribution in Industry & Transmission (Electrical Distribution Engineering)

Planning & design

Electrical design

Mechanical design (Over head)

Mechanical design (Under ground)

Metering

Conductor inductance & capacitance

## Power Transmission and Practical Power Distribution

Electric power system

Percentage and per unit quantities

Circuit constants

Assemblies of power system components

Power circuit stability

## BAE 502 Linear System ( 1 pt )

Controllability of linear control system

Finite dimensional linear control system

Linear partial differential equations

Introduction to intelligent control system with high degrees of autonomy

Overview of field

## Control system

System identification

Digital and analog

System metrics

System modelling

Classical control

Transform

Transfer functions

Sampled data system

System delays

Poles and zeros

Modern control

State space equation

Linear system solution

## **BAE 503 Control System ( 4 pt )**

Gain

Block diagram

Feedback control loop

Bode plot

Nichol chart

### **Stability**

Stability

Routh Hurwitz Criterion, Root Locus

Nyquist Criterion

State Space Stability

### **Controllers & Compensators**

Controllability & Observability

System Specifications

Controllers, Compensators

Z - Transform

### Non Linear Control Applications

Application of input/ output linearization

Non linear control for 2 stages PF correction converter

Non linear observer based control allocation

### Control Engineering MATLAB

Transfer functions and their responses

Frequency response/ Plotting

Closed loop control

Controller design

### Feedback and Control System

Introduction to linearized dynamic model

Transfer function model of physical systems

Transient performance / S- Plane

Feedback system modelling / Performance

Dynamic compensation of feedback system

### PID Control

Application of PID controllers in motor drive system

### Applications of Non Linear Control

Introduction

Phase plane method

### Process Control

Analog Signal Conditioning  
Digital Signal Conditioning  
Final Control  
Discrete State Control  
Controller Principle  
Analog Controller  
Digital Controller  
Control Loop Characteristics

### Numerical Control

Introduction to numerical control machinery  
Numerical control system  
Programming co-ordinates  
Two axis programming  
Three axis programming  
Maths for numerical control programming

## BAE 504 Power System Analysis ( 1 pt )

Overview  
Real & Reactive power injected bus  
Classification of buses  
Classification of buses  
Preparation of data for load flow  
Load flow by Gauss Seidel method  
Updating load bus voltage  
Updating PV bus voltage

Convergence of the algorithm

Solution of a set of non linear equation by Newton Raphson method

Load flow by Newton Raphson method

Load flow algorithm

Formation of Jacobian matrix

Formation of Jacobian matrix

Solution of Newton Raphson load flow

Load flow results

Load flow results

Load flow programs in MATHLAB

Forming Y bus matrix

Gauss Seidel Load Flow

Solving non linear equation using Newton Raphson method

Newton Raphson load flow

## Power System Analysis

Transformer

Transmission line model

Gauss Seidel Algorithm

Newton Raphson Iteration

DC Power Flow Algorithm

Modelling

Transient Stability

## Power System Analysis

Power Apps Transient Stability validation document for single pole open/ close simulation

(Power flow analysis + FAULT ANALYSIS + Power system dynamics and Stability)

## Static Analysis

Introduction

Network model

Active & reactive power flow

Nodal formation of power flow problem

Basic power flow problem

Solution of power flow problems

Fault analysis

Power system dynamics and stability

Synchronous machine model

The swing equation

Power swing in simple system

Oscillation in multi machine system

Voltage stability

Control of reactive power voltage

## BAE 505 Power System Optimization ( 1 pt )

Introduction

Power Flow Analysis

Classic Economic Dispatch

Linear programming method



Mathematical model of economic dispatch

Linear programming model

Optimization of power system performance using FACTS devices

Optimization of dynamical system

Matrix Eigen Value Method

-

## **BAE 506 Power System Stability & Protection ( 2 pt)**

Transient in RL circuit

Symmetrical fault

Transient in RL circuit

DC Source

AC Source

Faults in AC Circuit

Short circuit in unloaded synchronous generator

Symmetrical faults in power system

Calculation of fault current using Z bus matrix

Circuit breaker selection

Symmetrical components & representation of faulted network

Overview

Overview

Real & reactive power

Real & reactive power

Orthogonal Transformation

Sequence circuit for star load

Sequence circuit for delta load  
Sequence circuit for synchronous generator  
Sequence circuit for symmetrical transmission line  
Sequence circuit for transformer  
Star/ Star Connected Transformer  
Delta/Delta Connected Transformer  
Star/ Delta Connected Transformer  
Sequence Network  
Un- symmetrical Faults  
Introduction  
Single line to ground fault  
Line to line fault  
Two lines to ground fault  
Fault current computation using sequence network  
Transient Stability  
Introduction  
Power angle relationship  
Swing equation  
Equal area criterion  
Equal area criterion  
Multi machine stability  
Oscillation in “ S “ Two areas System  
Compensation of power transmission  
Introduction  
Ideal shunt compensator

Improving voltage profile

Improving power angle characteristics

Improving stability margin

Improving damping power oscillations

Ideal series compensator

Impact of series compensator for voltage profile

Improving power angle characteristics

Improving power angle characteristics

Alternate mode to voltage injection

Alternate mode to voltage injection

Comparison of two modes of operation

Power flow control and power swing damping

## Power System Protection

Different types of relays and settings

- Technical feasibility of various options
- Cost of options
- Type of transmission AC/DC
- Number of circuits
- Conductor type
- Transmission loss
- Reactive power support requirements
- Reliability
- Quality of power supply
- Stability aspects of the interconnected system
- Operational planning
- Short circuit levels and breaker requirements

- over voltages and control
- Insulation coordination at substations
- Substation arrangements at the end of line, including switching arrangements.
- Insulation requirements.
- Protection, monitoring, control and automation requirements
- Study of harmonics where needed [as in case of HVDC or when a terminating station is close to sources of harmonics]
- Basic and Detailed engineering related to transmission towers, routes, substations

Philosophy of protective relaying

Fundamental of relaying

Current/ voltage/directional/ differential relay

Distance relaying

Pilot wire relay

Carrier current relay

Voltage transformer

Relay response

Generator protection

Transformer protection

Busbar protection

Line protection

Line protection with distance relay

Line protection with pilot relay

## Power system stability

Power system stability Guidelines

Power system stability guidelines for determination and report

Direct stability analysis of electric power system using energy functions  
Power system stability –New opportunity for control  
Typical power quality and harmonic measurement plots  
Robust power system stabilizer design using particle swarm optimisation techniques  
Harmonic analysis

### Power Quality

Power quality  
Electrical protection for power system  
Substation automation  
Introduction to power quality  
Harmonic model of transformer  
Substation automation  
Modelling analysis of synchronous machines  
Life time reduction  
Power system modelling under non sinusoidal condition  
Impact of power quality on reliability  
Role of filters in power system

### BAE 507 Electro-mechanical Energy Conversion ( 2 pt )

Basic semiconductor physics  
PN Junction semiconductor  
Power switching devices  
Electrical rating of switching devices

Cooling

Load/ switch communication

Driving semiconductor & thyristor

Protecting diode / Thyristor/ Transistors

Switching circuit energy recovery

Series , parallel devices operation protection

Naturally commutating converter

AC Voltage Regulator

DC choppers

Power inverters

Switched mode & resonant DC-DC power supplies

Capacitors

Soft magnetic materials

Resistors

### Motor Control Electronics

AC Induction motor control

Motor control MCU

Networking for motor control system

DC motor control design

Motor control electronic devices

Power semi conductors

### Mechatronics/ Robotics

Robotics Application

Robotic Gears

Interfacing

Robotic Sensors

Communication

## **BAE 508 Industrial Engineering & Industrial Management ( 1 pt )**

### **Effective management decision making**

Chapter (1) Introduction

### **Business Information System**

Chapter (1) Defining Information System

Chapter (7) Acquiring Information System

Chapter (8) Developing Information System

### **Managing Human Resources in 21 Century**

Chapter (3) Human resources Management

### **Management Basics**

Chapter (2) The Manager's Job

Chapter (4) Planning in Organization

### **Operation Management**

Chapter (1) Introduction

Chapter (2) Operation Strategy

Chapter (10) Work System Design

Chapter (11) Project Management

Chapter (12) Inventory Management

### **Quality Management**

Chapter (7) Leadership in Quality Management  
Chapter (8) Strategic Quality Management  
Chapter (15) Implementing Quality Management

### **Strategic Financial Management**

Chapter (1) Finance An Overview  
Chapter (2) Capital Budgeting  
Chapter (5) Equity Valuation & Cost of Capital

### **Strategic Management**

Chapter (2) The Basic of Strategy  
Chapter (3) The Levels of formulation of strategy  
Chapter (6) External analysis  
Chapter (7) Internal analysis  
Chapter (10) Strategy implementation

### **Understanding organization part 1**

Chapter (3) Organization structure  
Chapter (4) Organization culture  
Chapter (5) Managing behaviour  
Chapter (6) Effective leadership

### **Part (2) Competency Units**

Mgt 501 Basic Management & Communication Skills ( 1 pt)

Textbook – Mgt 501 Management Basics

Chapter (1) Management basics

Chapter (3) Planning



Chapter (5) Organizing

Chapter (6) Organizing the organization

Chapter (7) Leading

Textbook—Mgt501 Management Briefs

Chapter (2) Leadership

Chapter (5) Motivation

## **BAE 601 Computer Programming ( 3 pt )**

### **Part (1) Overview Knowledge of the subject**

Select any of the following textbooks

- C Programming
- C++ Programming
- C# Programming
- Object Oriented Programming
- C Programming in Linux

IT 401 Object Oriented Programming ( 1 pt)

IT 402 Structured Programming ( 1 pt)

IT 403 Visual Basic Programming ( 1 pt)

## **BAE 602 Computer Network ( 1 pt )**

Computer Network

Peer to peer networking

Client server networking

Network hardware

Network cable

Hub

Wired network

Wireless network card

Firewall

Wiring the network

Wiring the network

Running the network program

Viewing network connection

Network set up on additional computers

Viewing network connection

Introduction

Network model

Data and signals

Data and signals

Data rate limit

Performance

Digital transmission

Digital transmission

Analog transmission

Analog transmission

Bandwidth utilization/ Multiplexing/  
Spreading

Bandwidth utilization/ Multiplexing/  
Spreading

Transmission media  
Error detection & correction  
Error detection and correction  
Defining needs  
Area covered  
Organization information requirement  
System VS Procedure  
Types of systems  
What are the systems?  
Infrastructure  
Support system  
Data mart  
Organizational structure  
Planning for system development  
System design  
Security of information system  
Risk management

## **BAE 603 Software Engineering ( 2 pt )**

Introduction  
Software process  
Feasibility study  
Project management  
Documentation, Requirement analysis

Requirement specification  
Business/ Legal aspect  
Source code management  
Formal specification  
Object oriented design 1  
Object oriented design 2  
Object oriented design 3  
System Architecture 1  
System Architecture 2  
System Architecture 3  
Design for utility  
Performance of computer system  
Coding standard/ Tools for designing 1  
Dependable system 1 Reliability  
Dependable system 2 Validation  
Law aspect  
Risks in software engineering  
Software engineering as engineering

## Nano Technology

What is Nano technology?  
Motivation for Nano technology  
Scaling laws  
Nano technology

## BAE 604 Telecommunication Engineering ( 2 pt )

Communication fundamental

Information & bandwidth

Amplitude modulation transmission

Amplitude modulation reception

Single side banded communication

Frequency modulation –Transmission

Frequency modulation –Reception

Communication Techniques

Communication Receivers

Pulse Modulation

Code transmission

ISDN

Transmission lines

Wave propagation

Antenna

Fibre optics

### Data Communication

Overview of data communication

Data terminals

Message and transmission channels

Asynchronous modems and interfaces

Synchronous modem and digital transmission

Protocol and error control

#### Electronics Telecommunication

RF Transmission

Transmission Lines & Antennas, Video signals

### BAE 605 Engineering Management ( 5 pt )

#### Part (1) Overview Knowledge of the subject

Completion of BAE 508 Overview also completes BAE 605 Overview

#### Part (2) Competency Units

Mgt 502 Operation Management ( 1 pt)

Mgt 503 Production & Operation Management ( 1 pt)

Mgt 504 Project Management ( 1 pt)

Mgt 505 Quality Management and Manufacturing Engineering ( 1 pt)

Mgt 506 Strategic Financial Management ( 1 pt)

#### Mgt 502 Operation Management ( 1 pt)

Chapter (3) Product design and process selection

Chapter (4) Total quality management

Chapter (7) JIT & Lean System

Chapter (8) Capacity planning

#### Mgt 503 Production & Operation Management ( 1 pt)

Chapter (6) Planning production

Chapter (7) Managing inventories-Material requirement planning

Chapter (11) Manufacturing

Chapter (13) Dealing with technology and design

Chapter (15) Operation strategy

### **Mgt 504 Project Management ( 1 pt)**

Chapter (1) Project management

Chapter (2) Project organization

Chapter (4) Project plan

Chapter (5) Progress & performance measurement

Chapter (6) Risk management

Chapter (7) Documentation/ Audit/ Closure

### **Mgt 505 Quality Management and Manufacturing Engineering ( 1 pt)**

Chapter (2) Background

Chapter (3) Why quality management

Chapter (5) Standards and models

Chapter (5) Progress & performance measurement

Chapter (8) Strategic quality management

Chapter (7) Documentation/ Audit/ Closure

### **Mgt 506 Strategic Financial Management ( 1 pt)**

Chapter (3) Capital budgeting

Chapter (4) Treatment of uncertainty

Chapter (6) Debt valuation and cost of capital

Chapter (7) Capital gathering & cost of capital

# BAE 606 Building Service Electrical & Mechanical Engineering ( 2 pt )

## Building Construction 1

Making building

Foundations

Wood

Interior finish for wood light frame construction

Wall types

Concrete construction

## Air-conditioning & Refrigeration

Controlling the temperature of mass

Electric heat

Humidification

Air-conditioning –Cooling / Comfort

Air-distribution & Balance

Reference Tables

## Sanitation & Water Supply

Design of onsite sanitation system

Hydraulic design of sewers

## Building Electrical & Mechanical System Part 1

Climate comfort and design strategies

Thermal control

Designing for heating cooling

Large building HVAC system

Water and basic design

Water supply



Water and waste

Fire protection

Fire protection

Illumination

Lighting design

Signal system

## Airconditioning and Refrigeration

Theory of heat

Solar heat

Humidification

Air-conditioning-Cooling

Air-distribution & Balance

Air-conditioning Calculation worksheets

## **BAE 607 Radio Wave Propagation & Microwave Techniques ( 2 pt )**

### **Radio Wave Propagation**

Introduction to radio wave propagation

Propagation features/ Overviews

Electromagnetic waves, Propagation through atmosphere

Antenna

Radio wave propagation fundamentals

Antennas and propagation

Mobile radio propagation

Propagation

Wave propagation

Radio navigation

Wireless communication

## Microwave Technique

Microwave antenna and radio wave propagation

Distributed element circuit analysis techniques

Matching networks

Couplers, combiners, dividers

Mixers

Gain and stability

Noise

Electromagnetism and RF Propagation

Antenna Fundamental

Communication system

RF Safety

Rain attenuation of microwave and milli-meter wave signals

Design of microwave filters (Vol 1)

Mechanically & magnetically tunable microwave filters

Design of microwave filters (Vol 1)

General applications of filter structure in microwave engineering

Properties of some common microwave filter elements

## BAE 608 Professional Engineer Competency Demonstration Report

- The students will have to write Engineering Competency Demonstration Report based on their academic study and work experiences gained after completion of academic study.
- Competency Demonstration Report is voluntarily to be submitted. It prepares the students to have the necessary skills to gain the membership of Engineers Australia later.
- The outlines of Competency Demonstration Report will be provided to the students after completion of the last course work subject.

#### BAE421 Building Construction Engineering

- 1 Basic skills
- 1 Isometric drawing
- 1 Retaining walls & Post footings
- 1 Stair
- 1 Doors & Windows
- 1 Trusses
- 1 Buildings
- 1 Collar truss
- 1 Howe truss
- 1 Timber
- 1 Steel
- 1 Brick masonry
- 1 Timber
- 1 Brick-nogging
- 1 Steel
- 1 Reinforced concrete
- 1 Floor plans

- 1 Foundation plan
- 1 Cross section
- 1 Front elevation
- 1 Back elevation
- 1 Left side elevation
- 1 Right elevation
- 1 Culverts
- 1 Bridges
- 1 Buildings
- 1 Pipe culvert
- 1 Box culvert
- 1 Slab culvert
- 1 Deck and girder bridge
- 1 Half top plan of culvert
- 1 Half bottom plan of culvert
- 1 Cross section of culvert
- 1 Longitudinal section of culvert
- 1 Elevation of culvert
- 1 Mix Design
- 1 Permissible water cement ratio

1 Preliminary estimates

1 Detailed estimating

- Culverts
- Bridges
- Buildings
- Roads

1 Analysis of rates

1 Detailed Estimating

1 Buildings

1 Up to plinth level

1 Above plinth level

1 Culverts

1 Bridges

1 Roads

1 Earthworks

1 Analysis of Rates

1 Total workdone

1 Material and labour requirements

1 Estimated cost

1 Actual PAE or CCE or RFT

1 Complete items

1 Quantity

1 Measurements

1 Content calculation

1 Rates

1 Buildings

1 Above plinth level

1 Culverts

1 Analysis of rates

### BAE423 Fluid Mechanics ( 2 pt)

1 *Methods of Application of water*

1 *Water Logging, Drainage, land reclamation and irrigation management*

1 *Theoretical Concepts of Boundary Layer, Surface Roughness, Velocity Distribution*

1 *Gradually varied flow*

1 **Scale Model in Hydraulic Engineering**

1 Surface irrigation methods

1 Subsurface irrigation methods

- 1 Sprinkler irrigation
- 1 Drip or trickle irrigation
- 1 Flooding Methods
  - 1 *Wild or uncontrolled Flooding*
  - 1 *Controlled Flooding*
  - 1 *Flooding from field channels*
  - 1 *Border strip methods*
  - 1 *Check method*
  - 1 *Basin method*
  - 1 *Zig-zag method*
- 1 Furrow Method
- 1 Contour Farming

## BAE424 Reinforced Concrete ( 2 pt)

- 1 Design of Concrete Structures
- 1 FUNDAMENTALS OF FLEXURAL BOND
  - 1 Source of bond strength
  - 1 Bond Stress Based on Simple Cracked Section Analysis
  - 1 Actual Distribution of Flexural Bond Stress

- 1 Development Length
- 1 Factors influencing Development Length
- 1 ACI CODE PROVISION FOR DEVELOPMENT OF TENSION REINFORCEMENT
- 1 ANCHORAGE OF TENSION BARS BY HOOKS
- 1 Development Length and Modification Factors for Hooked Bars
- 1 ANCHORAGE REQUIREMENTS FOR WEB REINFORCEMENT
- 1 Special Requirements near the Point of Zero Moment
- 1 Structural Integrity Provisions

#### BAE425+525 Timber Engineering ( 2 pt )

- 1 Bending Stress and Deflection of Wood Joists
- 1 Shearing Stress Caused by Stationary Concentrated Load
- 1 Shearing Stress Caused by Moving Concentrated Load
- 1 Strength of Deep Wooden Beams
- 1 Design of a Wood-Plywood Beam
- 1 Determining the Capacity of a Solid Column
- 1 Design of a Solid Wooden Column
- 1 Investigation of a Spaced Column
- 1 Compression on an Oblique Plane
- 1 Design of a Notched Joint
- 1 Allowable Lateral Load on Nails
- 1 Capacity of Lag Screws



1 Design of a Bolted splice

1 Investigation of a Timber-Connector Joint

### BAE521 Road & Bridge ( 2 pt )

1 Hydraulic Design of Bridge

1 The establishment of afflux levels

1 Back water levels

1 Long Contraction

1 Yarnell's empirical equation

1 The limiting values of  $\sigma$

1 Skewed bridges

1 Discharge computation

1 Scour depth under the bridge

1 Scour around bridge piers

1 Scour protection works around bridge piers

1 Road bridge

## BAE522 Rock Mechanics ( 2 pt )

+

## BAE523 Soil Mechanics ( 2 pt )

- 1 Soil
- 1 Soil Mechanics
- 1 Geotechnical Engineering
- 1 Subsoil Exploration
- 1 Testing ( In-situ Tests & Laboratory Tests)
- 1 SPT, CPT, Vane Shear Test
- 1 Moisture content
- 1 Index Properties Tests (LL, PL, SL)
- 1 Grain Size Distribution Test ( Sieve Analysis & Hydrometer)
- 1 Specific Gravity
- 1 Shear Strength Tests ( Tri-axial Compression:, Direct Shear, Unconfined Compression:)
- 1 Compaction test, CBR Test
- 1 Consolidation Test, Permeability Test

## BAE 523A Environmental Engineering

- Distribution of water

- Requirement for good distribution system
- METHOD OF DISTRIBUTION
- Gravity System
- Combined gravity and pumping system
- Pumping system
- PRESSURE IN DISTRIBUTION MAINS
- SYSTEM OF WATER SUPPLY
- CONTINUOUS SYSTEM
- INTERMITTENT SYSTEM
- DRAWBACKS OF INTERMITTENT SYSTEM
- DISTRIBUTION RESERVOIR
- CAPACITY OF DISTRIBUTION RESERVOIR
- **Mac Donald's equation**
- DETERMINATION OF STORAGE CAPACITY
- Hydrograph method
- Mass curve method
- HEAD LOSS DUE TO FRICTION
- Darcy Weisbach formula
- Hazen William formula

- Manning's formula
- Combined Darcy Weisbach and Colebrook White formula
- LAYOUT OF DISTRIBUTION SYSTEM
- Dead end system or Tree system
- Grid iron system or Reticular system
- Circular system or ring system
- Radial system
- ANALYSIS OF PRESSURE IN DISTRIBUTION SYSTEM
- Equivalent pipe method
- Hardy cross method

### BAE621 Structural Engineering ( 3 pt )

1 DESIGN OF A SLAB BRIDGE

1 FOUNDATION SETTLEMENTS

1 Major problems with soil settlement analysis

1 Settlement classification

1 Immediate settlement & consolidation settlement

1 Stresses in soil mass

1 Approximate method (2:1 slope)

1 Boussinesq's method

1 Westergaard's method

## BAE623 Surveying & Traffic Engineering ( 2 pt)

- 1 Airport Runway Orientation
- 1 Wind Rose Diagram
- 1 Highway Pavement Performance
- 1 Traffic
- 1 Roadbed Soils (Sub grade Material)
- 1 Materials of Construction
- 1 Environment
- 1 Drainage
- 1 Reliability
- 1 Transportation Engineering
- 1 Transportation Planning
- 1 Urban Transportation Planning
- 1 Urban Transportation Planning Process
- 1 Coding and Zoning
- 1 Inventory Studies
- 1 Travel Studies
- 1 Forecasts for the Horizontal Year

- I Trip General Analysis
- I Trip Distribution Analysis
- I Modal Split Analysis
- I Network Assignment Analysis
- I Evaluation

#### **BAE624 Water Supply , Sanitation & Finishing ( 2 pt )**

- I Water Quality
- I Dissolved Oxygen
- I BOD (Biochemical Oxygen Demand)
- I COD (Chemical Oxygen Demand)
- I Water Sampling
- I Requirements for good Sampling Procedure

#### **BAE622 Architecture ( 3 pt )**

Refer any architecture text book , study & prepare the report on practical application problem given by the tutor.

#### **BAE511 Air-conditioning & Refrigeration**

- I Heat transfer by Conduction
- I Convection
- I Radition

- | Thermal Conductivity,  $k$
- | Boundary and Initial Conditions
- | Properties and state
- | The System
- | Internal energy ( $U$ )
- | Enthalpy ( $H$ )
- | Work ( $W$ )
- | Heat ( $Q$ )
- | Specific Heat Capacity ( $c$ )
- | Heat Engine
- | The characteristic equation of a perfect gas
- | Expansion processes
- | Adiabatic process
- | Isothermal Process

#### **BAE613 Mechanical Instrumentation Process**

- | Problem-solving Methodology
- | Matlab Environment
- | Initializing Variables
- | Data Format
- | Printing Matrices

- 1 Useful Commands and Functions
- 1 Fundamental Engineering Computations
- 1 Two-Dimensional Arrays and Matrices
- 1 Variational Method
- 1 Collational Method
- 1 Subdomain Method
- 1 Galerkin's Method
- 1 Least Square Method

#### **BAE614 Machine Design**

- **Balancing**
- **Forces**
- **Cam Profile**
- **Resultant Effects of Engine**
- **Arrangement to balance the primary moment (C.W)**
- **V-Engine Mechanism**
- **FORCES IN ENGINE**
- **Inertia Forces and D'Alembert's Principle**

#### **BAE512 Building Service Water Supply System**

- Pressure loss in duct
- Pressure loss in duct by loss coefficient method
- Pressure loss in duct by Equivalent Length Method
- To find the duct size by Equal Friction Method
- To find the duct size by Balance Capacity Method



- Design the duct system

#### BAE311 Plant Engineering (2 pt)

- *Three Degree of freedom*
  - (a) Newton's method
  - (b) Mechanical Impedance method
  - (c) Influence coefficients
  - (d) Matrix method
  - (e) Holzer method
  - (f) Matrix Iteration method
- INTRODUCTION TO CONTROL SYSTEM
- DIFFERENTIAL EQUATIONS
- LINEARIZATION OF A NON-LINEAR FUNCTION
- MODELLING OF CONTROL SYSTEMS
- FREQUENCY RESPONSE METHODS
- **Stability**

#### BAE312 Design Engineering (2 pt)

This unit is the same as

[BAE621 Structural Engineering \( 3 pt \)](#)

#### BAE313 Environmental Control (2 pt)

This unit is the same as

[BAE 523A Environmental Engineering](#)

#### BAE314 Mechanical Power Generation (2 pt)

- PLC Basics
- PLC Structure
- PLC in Comparison with Other Control Systems
- PLC's CPU
- PLC's Memory
- PLC in Comparison with Other Control Systems
- PLC's CPU
- PLC's Memory
- Programming Devices
- Programming Languages
- Instruction Set
- Typical Combinations of Languages
- Basic Symbols
- Elementary Logic Circuit
- PLC's Functions
- Industrial Programming
- PLC PRACTICE
- Selection of PLC
- Types of I/O & Capacity Needed
  
- Control System Basic
- Sequence Control
- Automatic Control
- Terms of Sequence Control
- Basic Knowledge on Contacts
  
- INDUSTRIAL MACHINE CONTROLS

#### BAE315 Materials Engineering (2 pt)

- Load, Stress and Strain, Hook's law ,
- Principal of Superposition
- Tensile Test , Factor of Safety

- Strain Energy, Resilience
- Impact Loads
- Varying Cross-section and Loads
- Strain Energy , Resilience
- Compound Bars
- Temperature Stresses

### Elective (2 pt)

Subjects
BAE513 Production Technology
BAE611 Maintenance Engineering
BAE612 Engineering Metallurgy

Refer any text book , study & prepare the report on practical application problem given by the tutor.

### Bachelor of Applied Science (Information Technology)

Year 1+2 Refer Diploma & Advanced Diploma in Information Technology Detailed Contents

### Bachelor of Applied Science (Computer Science & Computer Technology)

### Year (3)

Unit	Topics	Reference	Points
<a href="#">ICT 301</a>	<a href="#">General Electrical Knowledge</a>	EE101	3
<a href="#">ICT 302</a>	<a href="#">Digital Electronics</a>	EE209/H012	3
<a href="#">ICT 303</a>	<a href="#">Amplifier</a>	EE208/H013	3
<a href="#">ICT 304</a>	<a href="#">Material Science</a>	E081	3
<a href="#">EE204</a>	<a href="#">Physics</a>	E046	3
<a href="#">EE201</a>	<a href="#">Mathematics 1</a>	E050	3
<a href="#">EE202</a>	<a href="#">Mathematics 2</a>	E026	3
<a href="#">EE306</a>	<a href="#">Basic Control</a>	I008	3
<a href="#">BAE605</a>	<a href="#">Management</a>		3
<a href="#">BAE408</a>	<a href="#">Analog &amp; Digital Electronics</a>		3
		TOTAL	30

### Year (4)

Unit	Topics	Reference	Points
<a href="#">ICT 401</a>	<a href="#">Advanced Mathematics 1</a>	BAE401	3
<a href="#">ICT 402</a>	<a href="#">Advanced Mathematics 2</a>	BAE402	3
<a href="#">BAE604</a>	<a href="#">Telecommunication System</a>		3
<a href="#">BAE508</a>	<a href="#">Project Management</a>		3
<a href="#">ICT 305</a>	<a href="#">Professional Programming (1) C++</a>		3
<a href="#">ICT 403</a>	<a href="#">Professional Programming (2) Object Oriented</a>		3
<a href="#">ICT 404</a>	<a href="#">Professional Programming (3) Java</a>		3
<a href="#">ICT 405</a>	<a href="#">Professional Practice (1) Network</a>		3
<a href="#">ICT 406</a>	<a href="#">Professional Practice (2) Website</a>		3
<a href="#">ICT 407</a>	<a href="#">Artificial Intelligence</a>		3
		TOTAL	30

Refer [Diploma & Advanced Diploma in Electrical Engineering Detailed Contents](#)

## ICT 305 Professional Programming (1) C++

- Introduction
- Basic program architecture
- Variables
- Console programs
- Program control
- String
- Arrays
- Object oriented programming
- Classes
- Design of classes
- Methods
- Inheritance
- The class object
- Abstract classes
- Interfaces
- Static members
- More about arrays
- Types
- Enum
- Struct

- Generic types
- Exception handling
- Comments
- Extension methods
- Collection classes
- List Stack
- Linked list
- Dictionary
- Text file
- Binary files
- Object serialization
- Lottery
- Expression

## ICT 403 Professional Programming (2) Object Oriented

### object-oriented-programming-using-c-sharp

- Introduction to object oriented programming
- Unified Modelling Language (UML)
- Inheritance & Method Overriding
- Object rules & the importance of polymorphism
- Overloading
- Object oriented software analysis and design
- Generic collection & how to serialize them
- C# development tools

- Creating & using exceptions
- Agile programming
- Case studies

### ICT 404 Professional Programming (3) Java

#### object-oriented-programming-using-java

- Introduction to object oriented programming
- Unified Modelling Language (UML)
- Inheritance & Method Overriding
- Object rules & the importance of polymorphism
- Overloading
- Object oriented software analysis and design
- Collection framework
- Java development tools
- Creating & using exception
- Agile programming
- Case study

### ICT 405 Professional Practice (1) Network

This competency standard unit covers develop services for network clients for emails, internet access, shared resources and the like. It encompasses safe working practices, installing and configuring Domain Name Server (DNS), email servers, Dynamic Host Configuration Protocol (DHCP), remote access servers, Network Address Translation (NAT), directory services, Authentication Servers and documenting development activities.

#### Essential knowledge and associated skills

This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge has been acquired of safe working practices and developing network services.

The extent of the essential knowledge and skills required is given Volume 2 Part 2, Clauses

## · Network infrastructure

Evidence shall show an understanding of network infrastructure to an extent indicated by the following aspects:

- a. Domain Name Service (DNS) encompassing
  - DNS Server Service
  - Root name server
  - Configuring zones
  - a. *Note:* Examples include configuring for dynamic updates and delegating zone for DNS
    - Caching – only server
    - DNS client
    - Testing DNS Server service
    - Manually creating DNS source
    - Managing and monitoring DNS
- b. Dynamic Host Configuration Protocol (DHCP)
  - Installation of DHCP Server Service
  - DHCP scopes, superscopes and multicast scopes
  - DHCP – DNS integration
  - Active Directory™
  - Managing and monitoring DHCP
- c. Network Infrastructure encompassing
  - Configuring and troubleshooting remote access
  - a. *Note:* Examples include remote access policy, configuration of remote access profile, Virtual Private Network (VPN), multi link connection, routing and remote access for DHCP
    - Managing and monitoring remote access
    - Remote access security
    - *Note.* Examples include authentication protocols, encryption protocols and access policy
- d. Network Protocols encompassing
  - Installation, configuration and troubleshooting of network protocols
  - a. *Note:* Examples include Transmission Control Protocol / Internet Protocol (TCP/IP), NWLink and network bindings
    - Configure TCP/IP packets
    - Configuring and troubleshooting network protocol security and IP Security (IPSec)
    - Managing and monitoring network traffic
- e. Internet Naming Services in a network encompassing
  - Installation, configuring and troubleshooting
  - Configuring Internet Naming Services replication
  - Configuring an application networking interface
  - Managing and monitoring Internet Naming Services
- f. IP Routing encompassing
  - Installation, configuring and troubleshooting of IP routing protocols



- a. *Note:* This includes updating routing tables, and implementing demand-dial routing
  - Managing and monitoring IP routing
- a. *Note:* This includes border routing, internal routing and IP routing protocols
- g. Network Address Translation (NAT) encompassing
  - Installing Internet connection sharing
  - Installing NAT
  - Configure NAT properties and interfaces
- h. Certificate Services encompassing
  - Installing and configuring Certificate Authority
  - Issuing and revoking certificates
  - Removing the Encrypted File System recovery keys

## · Directory services

Evidence shall show an understanding of directory services to an extent indicated by the following aspects:

- a. Installing and configuring directory services encompassing
  - Installing forests, trees and domains including automatic domain controller
  - Creating sites, subnets, site links and connection objects
  - Configuring server objects including site membership and global catalogue designation
  - Transferring of operations master roles
  - Verification and troubleshooting of directory services installation
  - Implementation of and organisational unit structure
- b. Domain Name Service (DNS) for directory services encompassing
  - Installation and configuration of DNS for directory services
  - a. *Note:* Examples are integration with existing DNS infrastructure, configuration of zones for dynamic and secure dynamic updates and creation and configuration of DNS records
    - Management, monitoring and troubleshooting of DNS
- c. Change and Configuration Management encompassing
  - Implementing and troubleshooting Group Policy
  - a. *Note:* Examples are Group Policy Object (GPO), linking to an existing GPO, delegation of administrative control of Group Policy, filtering of Group Policy settings by using security groups and modification of Group Policy prioritisation
    - Managing and troubleshooting user environments using Group Policy
    - Configuring directory services to support Remote Installation Services (RIS) including configuration of RIS options and security.
- d. Components of a directory service infrastructure encompassing
  - Management of directory objects
  - a. *Note:* Examples are moving objects, publishing resources in the directory service infrastructure, location of objects in the directory service infrastructure, creation and management of objects manually and by scripting, access control of objects and delegation of administrative control
    - Monitoring, optimisation and troubleshooting of the directory services infrastructure performance and replication

- Backup and restoring directory services infrastructure
- a. Note: Examples are authoritative and non authoritative restoration of directory services, restoration from systems failure and the seizing of operations master roles
- e. Security encompassing
  - Applying security policies using Group Policy
  - Creating, analysing and security modification by using Security Configuration and Analysis snap-in and the Security Templates snap-in
  - Implementation of an audit policy
- f. Monitoring and analysing security events

### Multi-layer switched networks

Evidence shall show an understanding of multi-layer switched networks to an extent indicated by the following aspects:

a) Campus network design encompassing:

- o core layer
- o distribution layer
- o access layer
- o selection of appropriate devices
- o defining workgroups

b) Managing Redundant Links encompassing:

- o Spanning Tree Protocol (STP)
- o Controlling STP in redundant environments
- o STP in Virtual Local Area Network (VLAN) environments
- o Configuring redundant routing protocols for a fault-tolerant routing

Note. An example is Hot Standby routing protocol (HSRP)

c) Fast layer 2 services encompassing:

- o Fast Ethernet
- o Trunking
- o Fast Ether channels
- o Gigabit services

d) Inter VLAN Routing encompassing:

- o Hardware vs. Software switching
- o Overview of fast switching technologies
- o Elements of a multi-layer switch
- o Configuring multi-layer switches

e) Multicast encompassing:

- o Multi-cast group management

- o Configuring multi-cast control at layer 2
- o Configuring multi-cast control at layer 3

- f) Controlling Access to the Campus Network
- g) Managing Network Traffic

### ICT 406 Professional Practice (2) Website

This unit covers installation, set up, implementation and provision of on-going support of web services. It encompasses working safely, installing and administering server software and databases, server side scripting, configuring access and security and documenting work activities.

#### Development, implementation and testing HTML pages with at least four of the following features:

Relative and absolute links, images and table formatting  
Cascaded styles sheets  
Forms  
New browser windows  
Validation of form data

#### Development, implementation and testing of server scripting for database access with at least four of the following features:

Form data input response  
Form data processing  
Database access  
Output of database table contents  
Insertion of table data to database

Installation and administration of key features of Web and Web application servers

#### Programming elements

Evidence shall show an understanding of the programming elements to an extent indicated by the following aspects:

a) Algorithm Design encompassing:

- o Problem Definition
- o Steps in Problem-Solving
- o Modular Design
- o Top-Down Design
- o Flow-Charts and Structured Programming
- o Pseudo-Code
- o Filtering allowable Data Input
- o Using standard Input & Output methods
- o Object-Oriented Design (brief intro.)
- o Documentation Rationale
- o Acceptable Documentation Method

b) Machine-Code, Assemblers and Compilers

c) Brief History of Languages & Limitations

d) Parameters of different programming languages encompassing:

- o Constants and variables
- o Data types and declarations
- o Logical flow control
- o Detecting breaches of structure
- o Documentation instruction examples
- o Procedures and function calls
- o Parameter-passing
- o Local and global variables
- o Object-oriented methods
- o Classes and objects,
- o encapsulation and inheritance.
- o Visual programming methods
- o General-purpose program libraries

e) Data structures encompassing:

- o Records
- o Arrays
- o File Input/output

f) Testing and validation encompassing:

- o Sequencing the process
- o Inconsistencies detection

Note, An examples is comparing code to documentation, commonly called — Desk-Checking'.

- o Test data selection
- o Modular testing & debug
- o Problems with using

### Client side programming

Evidence shall show an understanding of client side programming them to an extent indicated by the following aspects:

- a) Client server architecture
- b) Hyper Text Markup Language (HTML) encompassing:
  - o Forms
  - o Table
  - o Cascading style sheets
- c) Hyper Text Markup Language (HTML) scripting encompassing:
  - o Exposed object model
  - o Events and event handling
  - o Objects methods, properties, events
  - o Window, document, form, and form elements
  - o String object, methods, properties
  - o Form field validation

Note: Examples of scripting language are JavaScript and Visual Basic (VB) Script

- d) Extendable Markup Language (XML) encompassing:
  - o Syntax
  - o Structure (well formed XML)
  - o Schemas
  - o Transformations
  - o Parsing Document Object Model (DOM) and Simple API (SAX)
  - o Scripting to Document Object Model (DOM)

- e) Extendible Stylesheet Language (XSL) generating HTML from XML
- f) Wireless thin client programming

Note. Examples include Java2 Micro Edition (JEME), Mobile Information Device Profile (MIDP), Windows CE and Palm OS

- g) Consideration for system architecture

## h) Configurations and profile overview

### Server scripting

Evidence shall show an understanding of server scripting the to an extent indicated by the following aspects:

- a) Client server architecture
- b) Web and Application Servers
- c) Server scripting languages e.g. JSP, ASP, PHP, Perl
- d) Server script Tags
- e) Integrating script with HTML
- f) Server script object model
- g) Request, Response, Session, Application
- h) Using server objects
- i) Server components
- j) Using components in server scripts
- k) Scope of server components e.g. session, page, application
- l) Component get / set methods
- m) Deploying server components
- n) Advanced server scripting concepts

### Database access

Evidence shall show an understanding of database access to an extent indicated by the following aspects:

- a) Relational Databases encompassing:
  - o Tables, keys, design rules and normalisation
  - o Database management utilities

Note. Example include MSSQL, MYSQL and Access

- b) Structural query language (SQL) queries encompassing:
  - o Select, insert, update and delete processes
  - o Application of conditionals `_where`, `_distinct` and `_like`
  - o Create and dropping tables

- c) Data Base connectivity components encompassing:
  - o Drivers, data sources
  - o Database connectivity component loading

- o Query connection and execution
- o ResultSets / RecordSets
- o Rows, columns, cursors, concurrency, pooling
- o Iterating through ResultSets / RecordSets

Note. Example include ODBC, JDBC, ADO

### Web applications and services

Evidence shall show an understanding of web servers to an extent indicated by the following aspects:

a) Comparison of HTTP servers and platforms

Note. Examples include IIS and Apache

b) Comparison of Application servers and platforms

Note. Examples include J2EE / tomcat, .NET

c) HTTP Servers encompassing:

- o Installation requirements and methods
- o Security configuration
- o Content publishing and security

d) WEB application technologies encompassing:

- o Server installation and deployment
- o Security

e) Server scripting technologies encompassing:

- o WEB application installation and deployment
- o Application server administration

f) Web services overview encompassing:

- o WEB services XML, API, RPC
- o XML API processing
- o XML DOM
- o SOAP (simple object access protocol)
- o WEB Services Security

- Paths to artificial intelligent
- Agents and environment
- Framework for agents environment
- Agent oriented programming languages
- Net logo development
- Movement, Behaviour & Decision making
- Terms of movement
- Animated mapping simulation Embodiment
- Reactive versus cognitive agents
- Emergence, Self organization
- Adaptibility evolution
- Communication
- Search behaviour
- Resoning rules and logic
- Knowledge & reasoning using decision trees
- Intelligence
- Design objectives for artificial intelligence
- Computer problem solving ability

### **Bachelor of Business**

[Year 1Refer Diploma in Management Detailed Contents](#)

[Year 2 Refer Diploma & Advanced Diploma in Information Technology Detailed Contents](#)

## **YEAR (3)**

### **Bachelor of Business (E-Business & Management)**



The learning system will be based on self study. Read the given references study materials and prepare the project work. You need to read the books in English.

The following units common to MBA course are to be studied.

[Mgt 301 Electronics Business](#)

[Mgt 302 Information Security](#)

[Mgt 303 Management Information System](#)

[Mgt 304 Electronics Commerce](#)

[Mgt 305 Quantitative Methods for Management](#)

[Mgt 306 Human Resources Management](#)

[Mgt 307 Marketing Management](#)

[Mgt 308 Artificial Intelligence](#)

To assess Level 3, you need to write the report of 10 pages each on what you have learnt in the unit.

## YEAR (4)

[Mgt 401 Management Project](#)

[Mgt 402 Electronics Business Project](#)

**Mgt 301 Electronics Business**

I Project Objective

- l Business Capabilities
- l Benefits
- l Deliverables & Dependencies
- l Costs
- l Financial Appraisal
- l Timescales & Milestones
- l Success Criteria
- l Risks
- l the impacts of electronic commerce
- l drivers and inhibitors of electronic commerce from the perspective of the CEOs
- l the impacts of Electronic Commerce on the Industry Supply Chain
- l Electronic Commerce Maturity Model

## Mgt 302 Information Security

### Fundamentals of network security

Evidence shall show an understanding of fundamentals of network security to an extent indicated by the following aspects:

- a) Network Security fundamentals
- b) Securing Perimeter Routers
- c) Access Control Lists (ACLs)
- d) Router Authentication, Authorisation and Accounting (AAA) Security
- e) Intrusion Detection
- f) Internet Protocol (IP) Security
- g) Virtual Private Network (VPN)
- h) Firewalls
- i) Translations and Connections
- j) Access Control Lists for Firewalls
- k) AAA and Firewalls
- l) Intrusion
- m) Intrusion Detection Systems (IDS)
- n) Firewall Failover and System Maintenance
- o) Firewall VPN's
- p) Firewall Device Management
  
- q Introduction of Computer Networks and Internet :
  - v Overview of the Internet, client/server program, circuit switching, packet switching, physical media, queuing delay and packet loss, TCP/IP Service models, Internet Protocol Stack (Layers)

q Application Layer :

- v Service requirements, WWW, HTTP, FTP, Electronic Mail, Domain Name System, Socket programming

q Transport Layer

- v Service models, Multiplexing/Demultiplexing, Connection-less transport (UDP), Principles of reliable data transfer, Connection-oriented transport (TCP), TCP congestion control

q Network Layer :

- v Routing and forwarding, IP(The Internet Protocol ) IPv4, IPv6 ,Routing algorithms, Routing in the Internet, Multicast

q Link Layer and Local Area Networks :

- v Link layer services, Error detection and correction, Multiple Access Protocols, Link layer addressing, Ethernet, Hubs and switches, Point-to-Point Protocol

q understand principles of network security:

- v cryptography and its *many* uses beyond “confidentiality”
- v authentication
- v message integrity
- v key distribution
- v security in practice:
- v firewalls
- v security in application, transport, network, link layers
- v key distribution
- v security in practice:
- v firewalls
- v security in application, transport, network, link layers

### Mgt 303 Management Information System (MIS)

- The role of information system
- Hardware & software in enterprise
- Database management system
- Business Telecommunication system
- Communication network
- Network application
- Contemporary mobile service
- Examples of information systems
- Management of MIS
- Managing the Digital Firm

- Emergence of the Digital Firm
- The business information value chain
- A Business Perspective on Information Systems
- Variation in returns on information technology investment
- Sociotechnical Systems
- New Options for Organizational Design:
- The Digital Firm and the Collaborative Enterprise
- Redesigned workflow for insurance underwriting
- The Challenges of Information Systems: Key Management issues

## Mgt 304    Electronics Commerce

- **Types of E-commerce**
- **Understanding E-commerce: Organizing Themes**
- **E-commerce Business Models and Concepts**
- **The Internet and World Wide Web: E-commerce Infrastructure**
- **Building an E-commerce Web Site**
- **Online Security and Payment Systems**
- **Marketing Communications**
- **E-commerce Marketing Concepts**
- **Ethical, Social, and Political Issues in E-commerce**
- **Online Retail and Services**
- **E-commerce Business Models and Concepts**
- **The Internet and World Wide Web: E-commerce Infrastructure**
- **Security and Encryption**
- **E-commerce Payment Systems**
- **E-commerce Marketing Communications**
- **Ethical, Social, and Political Issues in E-commerce**
- **Online Service Industries**
- **Supply Chain Management and Collaborative Commerce**
- **Auctions, Portals, and Communities**
- **Online Content and Media**
- **Social Networks, Auctions, and Portals**
- **Online Content Providers: Digital Media**
-

## Mgt 305 Quantitative Methods for Management

- Research approach
- Data source
- Qualitative method
- Quantitative Methods
- Experiment research & observation
- Questionnaires survey
- Sampling
- Survey analysis
- Statistical analysis
- Writing research report
- Prescriptive Process Models
- Agile Development

## Mgt 306 Human Resources Management

- Meeting Present and Emerging Strategic Human Resource Challenges
- **Managing Work Flow and Conducting Job Analysis**
- Understanding Equal Opportunity and the Legal Environment
- Managing Diversity
- Recruiting and Selecting Employees
- Appraising and Managing Performance
- Rewarding Performance
- Managing Compensation

## Mgt 307 Marketing Management

- Company (Distributor) background (e.g. brief history, nature of business, etc.)

- Marketing objective(s) on the Chosen product/service
- S.W.O.T Analysis
- Target customers
- Product Positioning in the market
- Describe the current marketing mix:
  - Product
  - Pricing
  - Distribution
  - Marketing Communications (Promotion)
- overall competitive strategy
- planning the details of the marketing mix.
- sales & marketing materials
- understanding of company's competitors
- Marketing Recommendations for improvement
- marketing strategies

### **Mgt 308 Artificial Intelligence**

This is the same as

<a href="#">ICT 407</a>	<a href="#">Artificial Intelligence</a>
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### **Mgt 401 Management Project**

### **Mgt 402 Electronics Business Project**

Two reports one for Management for (Mgt 303+Mgt 305+Mgt 306) & another for Electronics Business + Marketing (Mgt 301+Mgt 302+Mgt 304+Mgt 307+Mgt 308) subjects are required to be presented.

Each should contain 4000 to 6000 words of how you pursue the study in Management,, Marketing, Electronics Business subjects should be described.

The project should contain management plans, business plan & performance, task, job procedures IT integration etc of the topics of your choices.

<http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc>

## IQY Techinal College Professional Diploma Curriculums

Click the following link

[www.highlightcomputer.com/BECurriculum.pdf](http://www.highlightcomputer.com/BECurriculum.pdf)



[Course Objectives of Diploma+ Advanced Diploma +Professional Diploma Programs](#)

[Detailed Contents of BE,B Bus& B App Sc \(IT\) Programs](#)

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](#)

[Full Curriculum of Professional Diploma in Engineering Programs](#)

Detailed Contents of Certificate, Diploma & Advanced Diploma Programs

[Certificate+ Diploma + Advanced Diploma in Electrical Engineering](#)

[Certificate+ Diploma + Advanced Diploma in Civil Engineering](#)

[Certificate+ Diploma + Advanced Diploma in Mechanical Engineering](#)

[Certificate+ Diploma + Advanced Diploma in Information Technology](#)

[Diploma + Advanced Diploma in Management & Business](#)

## YEAR (1)

### Diploma of Management

[Mgt 101 Management](#)  
[Mgt 102 Performance Management](#)  
[Mgt 103 Operation Management](#)  
[Mgt 105 Quality Management](#)  
[Mgt 108 Computer Application in  
Management](#)

[Mgt 107 Industrial Risk & Safety  
Assessment](#)  
[Mgt 104 Project Management](#)

## YEAR (2)

### Advanced Diploma of Information Technology Management

Study the following units

[ICT 103 Applied Programming](#)

[ICT 105 Systems Analysis and Programs](#)

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[ICT 106 Software Engineering](#)

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[ICT 202 Information Systems Principles and Networking](#)

[ICT 203 Information Systems, Analysis and Design](#)

[ICT 204 Advanced Programming](#)

[ICT 104 Program Projects](#)

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[Mgt 501 Communication Skills & Management Leadership](#)

Study BAE 508 Industrial Engineering & Industrial Management . You need to read the books in English.

(Focus on Mgt 501 Communication Skills & Mgt 501 Basic Management )

& do the exercises assigned by teacher.

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## **Advanced Diploma of Management**

( 30 points)

### **Master of Management (Qualified 1) Course for Business/ Accounting Degree Holders**

This course trains the students to work as middle class managers. It consists of customers service, change management, leadership, safety management, risk management, professional development, conflict management, work-based training, office management, and office management.

Study the following units

#### **Compulsory Units (Each 3 Points)**

[Mgt 201 Customer Service Management](#)

[Mgt 202 Change Management](#)

[Mgt 203 Inventory & Budget Management](#)

[Mgt 204 Continuous Improvement Management](#)

[Mgt 208 Safety Management](#)

[Mgt 209 Risk Management](#)

[Mgt 210 Professional Development Management](#)

[Mgt 211 Leadership](#)

#### **Optional Units (Do any 2 units) (Each 3 Points)**

[Mgt 207 Business Letter Writing](#)

[Mgt 205 Office Management](#)

[Mgt 212 Preparing Portfolios](#)

[Mgt 213 Conflict Management](#)

[Mgt 206 Work-based Training Management](#)

## Mgt 101 Management

- What is Organization?
- Need for Organization
- Data vs. Information
- Information Quality Checklist
- Organization & Information Requirements
- Nature of Business & Information Requirements
- Systems vs. Procedures
- Computer based Information System (CBIS)
- Cross-Functional Coordination
- Transaction Processing System
- Data Processing Tasks
- Management Information System
- Data Warehouse
- Data Mart
- Online Analytical Processing (OLAP)
- Data Mining
- Knowledge / Intelligent Systems
- Components of an Expert System
- Key CRM Tasks
- Organizational Structure
- Planning Productions/Operations
- Accounting & Financial Information Systems
- Decision-making process
- Business planning

- Explain work organizations, their basic characteristics and their connections to the wider social context.
- Define the term organizational behaviour and describe the contribution to the field of organizational behaviour of three disciplines; psychology, sociology and anthropology.
- Describe the evolution of organizational behaviour as a field of research and learning.
- Explain an integrated framework for conceptualizing organizational behaviour.
- Describe the challenges of conducting research on organizational behaviour.
- **What is OB?**
- **Why study OB (I)?**
- Work organization
- The behaviour of individuals and groups
- Organizational design and technology in which human behaviour takes place
- Control processes over resources, people and work activities
- Management processes, for example, the recruitment, training & rewards to workers
- Interaction between the organizational, the external and evaluative context
- Relationship between organizational agency and societal stability or instability at large
- the environmental forces as external context inputs;

- the processes for converting the inputs into outputs within an individual, group managerial milieu as the organizational context
- the evaluation or organizational process as evaluation outputs
- a feedback loop which links the organizational processes and external environmental forces, with the feedback flowing into the organization and from the organization into the environmental external context
- The multidisciplinary nature of organizational behaviour
- Diversity
- Ways of approaching OB
- Ways of approaching research
- Ways of researching OB

## Mgt 104 Project Management

### Part 1 Project Management

This unit covers the management of large electrical projects involving design, modifications, installation, and/or maintenance of systems and equipment. The unit encompasses management of safety, budget variation, personnel, resources, critical path timelines and completion documentation.

#### **KS01-EG169A Business project management**

Evidence shall show an understanding of managing electrical projects to an extent indicated by the following aspects:

T1 Defining project parameters encompassing:

- Project scope
- Project stakeholders and clients
- Project phases and the relationship between phases

T2 Time management concepts and standard practices

T3 Financial management encompassing:

- Financial management concepts
- Standard practices for managing project finances
- Project budgets
- Costs
- variations and estimations
- Invoicing against project phases/deliverables
- Acquittals and the like

T4 Quality management concepts and practices

T5 Human Resource management concepts and practices within a project

T6 Communication management concepts and practices within a project

T7 Risk management and contingencies encompassing:

- Risk management concepts
- Internal risks
- External risks
- Contingencies
- Standard practices for managing risk within a project
- Risk minimisation
- Risk removal; and the like

T8 Procurement management concepts and practices

T9 Physical Resource management concepts and practices relating to equipment, technology, information and facilities

T10 Contracts encompassing:

- Contract format
- Contract content
- Interpreting contract clauses
- Legal obligations of contract parties
- Working to contract specifications
- Documentation accompanying contracts such as schedules and the like



T11 Performance assessment and continuous improvement

T12 Engineering ethics principles

T13 Customer/Client relations encompassing:

- Interpersonal skills that enhance customer/client
- Dispute resolution
- Customer/client relations strategies

T14 **Business** sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing
- Typical approaches to planning and management
- Successful planning techniques
- Best practice management methods and styles

## Part 2 Project Planning

This unit covers development and documentation of large electrical project proposals, milestones and completions. The unit encompasses, establishing budgets, critical path analysis, development of workflow strategies, documenting, presenting and negotiating budgets and timelines.

### **KS01-EG170A Business project planning**

Evidence shall show an understanding of planning projects and analyzing progress to an extent indicated by the following aspects:

T1 Project planning encompassing:

T2 Purpose of project planning Evidence shall show an understanding of managing electrical projects to an extent indicated by the following aspects:

T3 Defining project parameters encompassing:

- Project scope
- Project stakeholders and clients
- Project phases and the relationship between phases
- Time requirements and limitations
- Resource requirements and limitations
- Quality requirements and limitations

T4 Time management concepts and standard practices

T5 Financial management encompassing:

- Invoicing against project phases/deliverables
- Acquittals and the like

T6 Quality management concepts and practices

T7 Human Resource management concepts and practices within a project

T8 Communication management concepts and practices within a project

T9 Risk management and contingencies encompassing:

- Risk management concepts
- Internal risks
- External risks
- Contingencies
- Standard practices for managing risk within a project
- Risk minimisation
- Risk removal; and the like

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T12 Contracts encompassing:

- Contract format
- Contract content
- Interpreting contract clauses
- Legal obligations of contract parties
- Working to contract specifications
- Documentation accompanying contracts such as schedules and the like

T13 Performance assessment and continuous improvement

T14 **Business** ethics principles

T15 Customer/Client relations encompassing:

- Importance of customer/client relations
- Interpersonal skills that enhance customer/client
- Dispute resolution
- Customer/client relations strategies

T16 **Business** sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing

#### REQUIRED SKILLS AND KNOWLEDGE

- Typical approaches to planning and management
- Successful planning techniques
- Best practice management methods and styles
- Documents needed to plan a project
- Factors influencing sequence and restraints of project activities
- Critical path analysis covering graphical representation methods and methods of representing time/rates

T17 Critical path and project analysis encompassing:

- Purpose of critical path analysis
- Essential data
- Relational sequence of work activities
- Graphical representation methods
- Methods of representing time/rates
- Monitoring methods

T18 **Business** sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing
- Typical approaches to planning and management
- Successful planning techniques
- Best practice management methods and styles

# Mgt 108 Computer Application in Management

-

## **Structure of computer**

[IntroductionToComputerHardware](#)

## **Advanced Hardware**

Architecture

Connect Internal Hardware

Requirement for a good computer

Hard Drive Controller

Mother

System Bus

CPU

Power Supply & Surge Protector

Computer Repair

Computer Network

## **Word**

Creating\_Web\_Pages\_in\_Word\_

Customize\_the\_Word\_\_Environment

Editing\_a\_Document\_in\_Word

Formatting\_Paragraphs\_in\_Word

Formatting\_Text\_in\_

Graphics in Word

Lists in Word

Macros in Word

Page Formatting in Word

Proof Reading Document in Word

Reference Citation Word

Table Contents Word

Track Change Word

Word Style

### **Excel**

Class Notes-Basic Excel

Advanced Excel

Class Notes-Basic Access

Advanced Access

### **Power Point**

### **AutoCAD**

AutoCAD Class Notes-HTML File

Advanced AutoCAD

## **Mgt 103 Operation Management**

### **Mgt 503 Production & Operation Management**

Analyze business operations using appropriate performance measures, such as flow time, throughput rate and capacity.

2. Propose business solutions in written and verbal forms for operations improvement and process design projects.

3. Identify inefficiency and ineffectiveness in business operations and propose adequate minor changes or major redesigns to improve the process.

4. Understand the theory and implementations of quality control activities for different

industries.

5. Use computing software to determine optimal capacity under various situations in a process.

## Mgt 105 Quality Management and Manufacturing Engineering

Meaning of Quality?

Quality: Customer's Perspective?

Dimensions of Quality: Manufactured Products

Dimensions of Quality: Services

Quality: Producer's Perspective

Outline Deming's 14 Points.

Deming Wheel: PDCA Cycle.

Cause-and-Effect Diagram

Pareto Analysis.

Control Chart.

Quality Management in the Supply Chain.

Quality Circles.

Quality Attributes in Services

Design for Six Sigma (DFSS).

Prevention Cost

External Failure Costs

Quality costs measure and report?

Measuring Product Yield and Productivity.

Quality–Productivity Ratio.

ISO 9000 certification?

### **Mgt 107 Industrial Risk & Safety Assessment**

This unit covers the mandatory requirements of persons in a supervisory role to implement and monitor an organisation's occupational health and safety policies, procedures and programs. It encompasses understanding an organisation's OHS obligations, providing safety information to staff, implementing and monitoring participative arrangements, safety procedures and training and maintaining safety records.

#### **Occupational Health and Safety, supervisory responsibilities**

Evidence shall show an understanding of OHS enterprise responsibilities to an extent indicated by the following aspects:

T1 Provisions of relevant occupational health and safety legislation

T2 Principles and practice of effective occupational health and safety management

T3 Workplace hazards, range and selection of control measures

T4 Organisational health and safety management systems and policies and procedures needed for legislative compliance

T5 Impact of characteristics and composition of the workforce on occupational health and safety management

T6 Relevance of occupational health and safety management to other organisational management policies, procedures and systems.

T7 Analysis of entire work environment and judge occupational health and safety interventions

T8 Analysis of relevant workplace data

T9 Ability to assess resources needed for risk control

### **BAE 601 Computer Programming ( 3 pt )**

#### **Part (1) Overview Knowledge of the subject**

Select any of the following textbooks

- C Programming
- C++ Programming
- C# Programming
- Object Oriented Programming
- C Programming in Linux

IT 401 Object Oriented Programming ( 1 pt)

IT 402 Structured Programming ( 1 pt)

IT 403 Visual Basic Programming ( 1 pt)

For [ICT 204 Advanced Programming](#) & [ICT 104 Program Projects](#)

More detailed aspects of programs are to be written

### **BAE 603 Software Engineering ( 2 pt )**

Introduction

Software process

Feasibility study

Project management

Documentation, Requirement analysis

Requirement specification

Business/ Legal aspect

Source code management

Formal specification

Object oriented design 1



Object oriented design 2  
Object oriented design 3  
System Architecture 1  
System Architecture 2  
System Architecture 3  
Design for utility  
Performance of computer system  
Coding standard/ Tools for designing 1  
Dependable system 1 Reliability  
Dependable system 2 Validation  
Law aspect  
Risks in software engineering  
Software engineering as engineering

### Nano Technology

What is Nano technology?  
Motivation for Nano technology  
Scaling laws  
Nano technology

### **BAE 602 Computer Network ( 1 pt )**

Computer Network  
Peer to peer networking  
Client server networking

Network hardware

Network cable

Hub

Wired network

Wireless network card

Firewall

Wiring the network

Wiring the network

Running the network program

Viewing network connection

Network set up on additional computers

Viewing network connection

Introduction

Network model

Data and signals

Data and signals

Data rate limit

Performance

Digital transmission

Digital transmission

Analog transmission

Analog transmission

Bandwidth utilization/ Multiplexing/  
Spreading

Bandwidth utilization/ Multiplexing/  
Spreading

Transmission media

Error detection & correction

Error detection and correction

Defining needs

Area covered

Organization information requirement

System VS Procedure

Types of systems

What are the systems?

Infrastructure

Support system

Data mart

Organizational structure

Planning for system development

System design

Security of information system

Risk management

## **Mgt 501   Communication Skills & Management Leadership**

- Effective communication skills

- Perspective of communication skill
- Elements of communication
- Communication styles
- Basic listening skills
- Effective written communication
- Management briefs
- Perspective on organization
- Leadership
- Understanding individuals
- Group work
- Motivation
- Goal setting
- Communication in leadership & group

#### Mgt 102 Performance Management

- Introductions and Learning Objectives
- Performance Management Defined (Elements of a Performance Mgmt System, Benefits of an Annual Performance Development Plan, The Performance Mgmt Timeline)

- Setting “SMART” Annual Objectives
- Roles of Manager and Direct Report in the Performance Development Plan
- Coaching Direct Reports During the
- Performance Management Cycle
- Effective Listening Skills
- Monitoring Performance and Conducting Interim Meetings
- Preparation for and Conducting the
- Annual Review Meeting
- Handling Challenging Situations
- Action Plan, Summary and Evaluation

<ul style="list-style-type: none"> <li>· Mgt 501+</li> <li>· Mgt 503</li> </ul>	Basic Management+ (EE309) Production & Operation Management
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## Part 1 Project Management

This unit covers the management of large mechanical projects involving design, modifications, installation, and/or maintenance of systems and equipment. The unit encompasses management of safety, budget variation, personnel, resources, critical path timelines and completion documentation.

### **KS01-EG169A Project management**

Evidence shall show an understanding of managing mechanical projects to an extent indicated by the following aspects:

T1 Defining project parameters encompassing:

- Project scope
- Project stakeholders and clients
- Project phases and the relationship between phases

T2 Time management concepts and standard practices

T3 Financial management encompassing:

- Financial management concepts
- Standard practices for managing project finances
- Project budgets
- Costs
- variations and estimations
- Invoicing against project phases/deliverables
- Acquittals and the like

T4 Quality management concepts and practices

T5 Human Resource management concepts and practices within a project

T6 Communication management concepts and practices within a project

T7 Risk management and contingencies encompassing:

- Risk management concepts
- Internal risks
- External risks
- Contingencies
- Standard practices for managing risk within a project
- Risk minimisation
- Risk removal; and the like

T8 Procurement management concepts and practices

T9 Physical Resource management concepts and practices relating to equipment, technology, information and facilities

T10 Contracts encompassing:

- Contract format
- Contract content
- Interpreting contract clauses
- Legal obligations of contract parties
- Working to contract specifications
- Documentation accompanying contracts such as schedules and the like

T11 Performance assessment and continuous improvement

T12 Engineering ethics principles

T13 Customer/Client relations encompassing:

Interpersonal skills that enhance customer/client

- Dispute resolution
- Customer/client relations strategies

T14 Mechanical industry sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing
- Typical approaches to planning and management
- Successful planning techniques
- Best practice management methods and styles

## Part 2 Project Planning

This unit covers development and documentation of large electrical project proposals, milestones and completions. The unit encompasses, establishing budgets, critical path analysis, development of workflow strategies, documenting, presenting and negotiating budgets and timelines.

### **KS01-EG170A Project planning**

Evidence shall show an understanding of planning projects and analyzing progress to an extent indicated by the following aspects:

T1 Project planning encompassing:

T2 Purpose of project planning Evidence shall show an understanding of managing electrical projects to an extent indicated by the following aspects:

T3 Defining project parameters encompassing:

- Project scope
- Project stakeholders and clients
- Project phases and the relationship between phases
- Time requirements and limitations
- Resource requirements and limitations
- Quality requirements and limitations

T4 Time management concepts and standard practices

T5 Financial management encompassing:

- Invoicing against project phases/deliverables
- Acquittals and the like

T6 Quality management concepts and practices

T7 Human Resource management concepts and practices within a project

T8 Communication management concepts and practices within a project

T9 Risk management and contingencies encompassing:

- Risk management concepts
- Internal risks
- External risks
- Contingencies
- Standard practices for managing risk within a project
- Risk minimisation
- Risk removal; and the like



T10 Procurement management concepts and practices

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- Importance of customer/client relations
- Interpersonal skills that enhance customer/client
- Dispute resolution
- Customer/client relations strategies

T16 Mechanical industry sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing

REQUIRED SKILLS AND KNOWLEDGE
<ul style="list-style-type: none"><li>· Typical approaches to planning and management</li><li>· Successful planning techniques</li><li>· Best practice management methods and styles</li><li>· Documents needed to plan a project</li><li>· Factors influencing sequence and restraints of project activities</li></ul>

- Critical path analysis covering graphical representation methods and methods of representing time/rates

T17 Critical path and project analysis encompassing:

- Purpose of critical path analysis
- Essential data
- Relational sequence of work activities
- Graphical representation methods
- Methods of representing time/rates
- Monitoring methods

T18 Mechanical industry sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing
- Typical approaches to planning and management
- Successful planning techniques
- Best practice management methods and styles

## Contents

# Mgt 201 Customer Service Management

- Internal & external customers,
- customer focused organization
- Customer-Centric Organization
- Customer Service Environment.
- Delivery Systems,
- Good Customer Service,
- Effective Communication Skills,

- Telephone Skills & Written Communication,
- Dealing with Difficult Behaviour

## Mgt 202 Change Management

- Change management approach.,
- Managing Change,
- Drivers of Change Model,
- Business Imperative,
- Organizational Imperatives,
- Cultural Imperatives ,
- Employee Behaviour related .

## Mgt 203 Inventory & Budget Management

- Budget ,
- Budgeting,
- Budgeting Process.,
- Budget Management. & Budget activities.,
- importance , requirement & purpose of budgeting.,
- Forecast of Income and Expenditure & Tool for decision making.,
- Business Plan.
- cash flow forecasting.,
- organization budget.

## Mgt 204 Continuous Improvement Management

- Successful organisations of the future,
- methodology for continuous improvement of project team ,

- consulting and training contexts,
- completeness of approach,
- Quality Management Systems.,
- Strategy for the organization.
- Process of continuous improvement for organization.,
- Structure for the project team,
- the roles of facilitator,
- elements for continuous improvement.

## Mgt 205 Office Management

- Role of an office,
- important functions of an office,
- requirements of an ideal office,
- various functions of an office,
- various types of offices,
- scope of Office Management.
- Organising an Office.,
- office accommodation,
- office location,
- layout of an office, filing system,
- indexing,
- Mechanisation,
- Desktop Publishing

## Mgt 206 Work-based Training Management

- Role of workplace facilitator.,

- workplace learning activities,
- assessing learner at workplace,
- support required for workplace learner,
- work-based learning,
- mentoring.,
- work-based learning

## Mgt 207 Business Letter Writing

- Grammar,
- business letter format,
- writing practice,
- business communication.

## Mgt 208 Safety Management

- Benefits of OHS, Operational Responsibilities,
- Workplace Health Issues,
- workplace hazards
- Substance Abuse,
- Job-related Stress,
- Workplace Health Programs,
- Drug Testing Programs.
- Workplace Safety Issues,
- General Duty Standard of employee,
- Personal Protective Equipment ,
- OHS auditing,
- OHS Risk Management.

## Mgt 209 Risk Management

- Aspects of Risk Management,
- Predictions for risk,
- Types of Risk,
- risk impact on decision making.
- Risk Source Classification Approach,
- Natural System, Human risks ,
- Political risks and Cultural risks,
- Primary Reasons of Failure,
- Resistance to Manage Risk,
- Methods for Treating Risk,
- important in risk management,
- Derivatives and hedging, risk reduction.

## Mgt 210 Professional Development Management

- Work Priorities ,
- SWOT Analysis,
- Professional Development,
- Multisource (360-degree) Feedback,
- Executive Coaching,
- professional development plan.
- Work performance.

## Mgt 211 Leadership

- Types of leadership ,
- New Model of Leadership,

- manager and leader,
- competencies of a leader.

## Mgt 212 Preparing Portfolios

- Portfolio preparation techniques,
- portfolio contents,
- types of portfolios,
- portfolio quality,
- contents of job search portfolio.

## Mgt 213 Conflict Management

- Meaning of . Conflict
- dispute
- Emotions in Conflict Management
- Positive affect in Negotiation
- Negative affect in Negotiation.
- Forms of resolving conflict (Alternative Dispute Resolution)
- Kinds of Adjudication.
- Components of Mastery of Environment?
- conflict blue print.
- Conflict Diagnosis
- Steps in Conflict Diagnosis.

**STAGE (1) DIPLOMA IN CIVIL ENGINEERING ( Each 2.5 Credits) ( 30 Pt)**

**Certificate in Construction Studies**

[CE 106A Detailed Construction & Building Construction Materials](#)

[CE 104 A Building Drawing](#)

[CE 101 Mathematics \(EE201\)](#)

[CE 102 Physics \(EE204\)](#)

[CE 108 Electrical Principle](#)

**DIPLOMA IN CIVIL ENGINEERING**

[CE 104 Fluid Dynamics](#)

[CE 105 Hydraulic](#)

[CE 106 Hydrology](#)

[CE 107 Sanitation-and-Water-supply](#)

[CE 109 Energy Efficient Building Design \(EE309\)](#)

[CE 110 Building Construction](#)

[EE102 Basic Electrical Fitting & Wiring](#)

Year (2) Advanced Diploma in Civil Engineering Program(30 pt) (Each 2.5 pt)

**YEAR (2) SEMESTER (1)**

[CE103-Surveying](#)

[CE111A-Road+Bridges](#)

[CE113 Structure 1](#)

[CE114 Structure 2](#)

[CE115 Estimating & Specification](#)

**YEAR (2) SEMESTER (2)**

[EE104 Electrical Equipments Safety Protection](#)

[EE105 Electrical Installation Design](#)

[ME 102 Engineering Thermodynamics](#)

[ME 334 Airconditioning and Refrigeration](#)

[EE106 Advanced Electrical Wiring](#)

[CE 112 Engineering Mechanics+ ME 301 Applied Mathematics](#)

[EE308 Sustainability](#)



CE 101	Mathematics (EE201)
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This unit covers the application of computational processes to solve engineering problems. It encompasses working safely, applying problem solving techniques, using a range of mathematical processes, providing solutions to electrical/electronics engineering problems and justifying such solutions.

Note. Typical engineering problems are those encountered in meeting requirements in a design brief, meeting performance requirements and compliance standards, revising systems operating parameters and dealing with system malfunctions

### KS01-EE126A Electrotechnology engineering maths

Evidence shall show an understanding of electrotechnology engineering maths to an extent indicated by the following aspects:

#### T1 Rational, irrational numbers and basic algebra

- ↯ simplification of expressions involving square roots and cube roots
- ↯ scientific and engineering notation
- ↯ evaluation of expressions using a calculator
- ↯ convert units of physical quantities using unity brackets
- ↯ substitute given values into formulae to find physical quantities
- ↯ manipulate algebraic expressions using mathematical operations in their correct order, the laws of indices, expansion of brackets and collecting like terms

#### T2 Algebraic manipulation

- ↯ Factorise algebraic expressions using common factors
- ↯ Factorise quadratic expressions using trial and error on the factors of the coefficients
- ↯ Simplify algebraic fractions using common denominators and cancelling
- ↯ Solve simple one variable equations including algebraic fractions
- ↯ Find the quotient and remainder given a linear divisor.
- ↯ Transpose formulae to find a required variable.

#### T3 Laws of indices

- ↯ Conversion between decimal notation, scientific notation and engineering notation
- ↯ Laws of indices: positive /negative values, multiplication/division, fractional values, index equals zero
- ↯ Logarithmic laws: multiply/divide
- ↯ solution of exponential equations using logarithms, substitution and solution of relevant formulae involving exponents or logarithms
- ↯ Graphs of exponential functions,  $10^x$  and  $e^x$  and the inverses  $\log_{10}(x)$  and  $\log_e(x)$  functions on log-linear graphs
- ↯ Convert numbers into scientific and engineering notation using the laws of indices
- ↯ Manipulate and simplify arithmetic and algebraic expressions using the laws of indices and logarithms
- ↯ Express logarithms as indices.
- ↯ Perform logarithmic operations.

- Determine logarithms and antilogarithms to base 10, using a scientific calculator.
  - Determine logarithms and antilogarithms to base e, using a scientific calculator.
  - Convert logarithmic values from base 10 to base e and vice versa.
  - Sketch given functions on log-linear graphs
- T4 Estimations, errors and approximations
- Errors in measurement
  - Maximum probable error
  - Show awareness of errors in measurement and of giving results in appropriate number of significant figures
  - Use estimations and approximations to check the reasonableness of results.
- T5 Plane figures – triangles and basic trigonometry
- Angles in a triangle
  - Isosceles and equilateral triangles
  - Congruent triangles
  - Similar triangles
  - Pythagoras' theorem
  - Area of triangles
  - Basic trigonometry functions
  - Degrees, radians
  - The ratios: sin, cos, tan, cosec, sec, cot.
  - Inverse trig functions
  - Sine and cosine rules
- T6 Plane figures - quadrilaterals and circles
- Types and properties of quadrilaterals
  - Areas and perimeters of regular quadrilaterals
  - Lengths of arcs
  - Angles in a circle - degrees
  - Angles in a circle - radians
  - Lengths of chord segments
  - Tangents to circles
  - Circumference and area of circles
  - Names and characteristics of common polygons
- T7 Graphs of Trigonometric functions
- Graph trigonometric functions and solve trigonometric equations.

- Simplify trigonometric expressions using trigonometric identities
- Convert angular measure in degrees to radians and vice versa
- Graph trigonometric functions including graphs of  $y = \sin x$  and  $y = \cos x$
- Using vocational applications of current or voltage as a function of time, consider changes in amplitude, consider changes in frequency.
- Examine relationships of frequency, period and angular velocity.
- Sketch graphs of the form  $f(t) = a \sin \phi t$  and  $f(t) = a \cos \phi t$ , where  $a$  is the peak voltage or current, and  $\phi$  is the angular velocity
- Solve graphically equations of the form  $f(t) = a \sin \phi t$  and  $f(t) = a \cos \phi t$

#### T8 Graphs of linear functions

- The number plane
- Gradient and x and y intercepts of a straight line
- Equation of a straight line length and mid-point of a straight line segment
- Function notation

#### T9 Simultaneous equations

- Graphical solutions
- Substitution
- Elimination
- Solve 2 linear simultaneous equations both algebraically and graphically.

#### T10 Matrices

- Perform the basic operations on matrices up to  $3 \times 3$
- Manipulate matrix equations and expressions
- Recognise inverse and identity matrices up to  $3 \times 3$  and use to solve systems of linear equations.
- Find determinants up to  $3 \times 3$  and use to solve systems of linear equations.
- Solve problems involving more than two simultaneous equations.
- State the limitations of graphical methods of solution.
- Distinguish between a matrix and an array.
- Describe the null, diagonal and unit matrix
- Describe and identify a singular/non-singular matrix

#### T11 Quadratic functions

- Graphs of quadratic functions represented by parabolas and the significance of the leading coefficient.
- Graph quadratic functions and solve quadratic equations.

- Sketch and interpret the graphs of quadratic functions showing the significance of the leading coefficient and the zeros
- Solve quadratic equations by factoring or using quadratic formula
- Solve simultaneously linear and quadratic equations algebraically and geometrically
- Interpret verbally formulated problems involving quadratic and linear equations and solve.

#### T12 Exponential and logarithmic functions

- Transform non-linear functions (including exponential) to linear forms and plot data.
- Draw curves of best fit, interpolate data and estimate constants in suggested relationships.
- Graph exponential and logarithmic functions and solve exponential and logarithmic equations.
- Sketch the graphs of simple exponential and logarithmic functions showing behaviour for large and small values

#### T13 Vectors and Phasors

- The vector as an expression of magnitude and direction
- The vector sum of x and y values in terms of magnitude and direction
- Rectangular components of vectors in the form  $x = r \cos \theta$  and  $y = r \sin \theta$
- Rectangular-polar and polar-rectangular conversion
- Vector addition and subtraction
- Express rectangular components of vectors in the form  $x = r \cos \theta$  and  $y = r \sin \theta$

#### T14 Complex numbers

- Definitions and notation of complex numbers
- Complex numbers as vectors on an Argand diagram
- laws of complex numbers and apply the laws in suitable calculations.
- Plot complex numbers on the Argand plane.
- Express vectors as complex numbers and perform suitable calculations.
- Calculate the conjugate of a complex number.
- Using a calculator for rectangular-polar and polar-rectangular conversions.

#### CE 108 Electrical Principle

This unit covers determining correct operation of single source d.c. series, parallel and series-parallel circuits and providing solutions as they apply to various electrotechnology work functions. It encompasses working safely, problem solving procedures, including the use of voltage, current and resistance measuring devices, providing solutions derived from measurements and calculations to predictable problems in single and multiple path circuits.

Evidence shall show an understanding of electrical fundamentals and direct current multiple path circuits to an extent indicated by the following aspects:

T1 Basic electrical concepts encompassing:

- ↯ electrotechnology industry
- ↯ static and current electricity
- ↯ production of electricity by renewable and non renewable energy sources
- ↯ transportation of electricity from the source to the load via the transmission and distribution systems
- ↯ utilisation of electricity by the various loads
- ↯ basic calculations involving quantity of electricity, velocity and speed with relationship to the generation and transportation of electricity.

T2 Basic electrical circuit encompassing:

- ↯ symbols used to represent an electrical energy source, a load, a switch and a circuit protection device in a circuit diagram
- ↯ purpose of each component in the circuit
- ↯ effects of an open-circuit, a closed-circuit and a short-circuit
- ↯ multiple and sub-multiple units

T3 Ohm's Law encompassing:

- ↯ basic d.c. single path circuit.
- ↯ voltage and currents levels in a basic d.c. single path circuit.
- ↯ effects of an open-circuit, a closed-circuit and a short-circuit on a basic d.c. single path relationship between voltage and current from measured values in a simple circuit
- ↯ determining voltage, current and resistance in a circuit given any two of these quantities
- ↯ graphical relationships of voltage, current and resistance
- ↯ relationship between voltage, current and resistance

T4 Electrical power encompassing:

- ↯ relationship between force, power, work and energy
- ↯ power dissipated in circuit from voltage, current and resistance values
- ↯ power ratings of devices
- ↯ measurement electrical power in a d.c. circuit
- ↯ effects of power rating of various resistors

T5 Effects of electrical current encompassing:

- ↯ physiological effects of current and the fundamental principles (listed in AS/NZS 3000) for protection against the this effect
- ↯ basic principles by which electric current can result in the production of heat; the production of magnetic fields; a chemical reaction

- typical uses of the effects of current
- mechanisms by which metals corrode
- fundamental principles (listed in AS/NZS3000) for protection against the damaging effects of current

T6 EMF sources energy sources and conversion electrical energy encompassing:

- basic principles of producing a emf from the interaction of a moving conductor in a magnetic field.
- basic principles of producing an emf from the heating of one junction of a thermocouple.
- basic principles of producing a emf by the application of sun light falling on the surface of photovoltaic cells
- basic principles of generating a emf when a mechanical force is applied to a crystal (piezo electric effect)
- principles of producing a electrical current from primary, secondary and fuel cells
- input, output, efficiency or losses of electrical systems and machines
- effect of losses in electrical wiring and machines
- principle of conservation of energy

T7 Resistors encompassing:

- features of fixed and variable resistor types and typical applications
- identification of fixed and variable resistors
- various types of fixed resistors used in the Electro technology Industry. e.g. wire-wound, carbon film, tapped resistors.
- various types of variable resistors used in the Electro technology Industry e.g. adjustable resistors: potentiometer and rheostat; light dependent resistor (LDR); voltage dependent resistor (VDR) and temperature dependent resistor (NTC, PTC).
- characteristics of temperature, voltage and light dependent resistors and typical applications of each power ratings of a resistor.
- power loss (heat) occurring in a conductor.
- resistance of a colour coded resistor from colour code tables and confirm the value by measurement.
- measurement of resistance of a range of variable' resistors under varying conditions of light, voltage, temperature conditions.
- specifying a resistor for a particular application.

T8 Series circuits encompassing:

- circuit diagram of a single-source d.c. 'series' circuit.
- Identification of the major components of a 'series' circuit: power supply; loads; connecting leads and switch
- applications where 'series' circuits are used in the Electro technology industry.
- characteristics of a 'series' circuit - connection of loads, current path, voltage drops, power dissipation and affects of an open circuit in a 'series' circuit.
- the voltage, current, resistances or power dissipated from measured or given values of any two of these quantities
- relationship between voltage drops and resistance in a simple voltage divider network.
- setting up and connecting a single-source series dc circuit

→ measurement of resistance, voltage and current values in a single source series circuit effect of an open-circuit on a series connected circuit

#### T9 Parallel circuits encompassing:

- schematic diagram of a single-source d.c. 'parallel' circuit.
- major components of a 'parallel' circuit (power supply, loads, connecting leads and applications where 'parallel' circuits are used in the Electrotechnology industry.
- characteristics of a 'parallel' circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a 'parallel' circuit).
- relationship between currents entering a junction and currents leaving a junction
- relationship between branch currents and resistances in a two branch current divider network.
- calculation of the total resistance of a 'parallel' circuit.
- calculation of the total current of a 'parallel' circuit.
- Calculation of the total voltage and the individual voltage drops of a 'parallel' circuit.
- setting up and connecting a single-source d.c. parallel circuit
- resistance, voltage and current measurements in a single-source parallel circuit
- voltage, current, resistance or power dissipated from measured values of any of these quantities
- output current and voltage levels of connecting cells in parallel.

#### T10 Series/parallel circuits encompassing:

- schematic diagram of a single-source d.c. 'series/parallel' circuit.
- major components of a 'series/parallel' circuit (power supply, loads, connecting leads and switch)
- applications where 'series/parallel' circuits are used in the Electrotechnology industry.
- characteristics of a 'series/parallel' circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a 'series/parallel' circuit).
- relationship between voltages, currents and resistances in a bridge network.
- calculation of the total resistance of a 'series/parallel' circuit.
- calculation of the total current of a 'series/parallel' circuit.
- calculation of the total voltage and the individual voltage drops of a 'series/parallel' circuit.
- setting up and connecting a single-source d.c. series/ parallel circuit
- resistance, voltage and current measurements in a single-source d.c. series / parallel circuit
- the voltage, current, resistances or power dissipated from measured values of any two of these quantities

#### T11 Factors affecting resistance encompassing:

- four factors that affect the resistance of a conductor (type of material, length, cross-sectional area and temperature)
- affect the change in the type of material (resistivity) has on the resistance of a conductor.
- affect the change in 'length' has on the resistance of a conductor.
- affect the change in 'cross-sectional area' has on the resistance of a conductor.

effects of resistance on the current-carrying capacity and voltage drop in cables.

calculation of the resistance of a conductor from factors such as conductor length, cross-sectional area, resistivity and changes in temperature

using digital and analogue ohmmeter to measure the change in resistance of different types of conductive materials (copper, aluminium, nichrome, tungsten) when those materials undergo a change in type of material length, cross-sectional area and temperature.

#### T12 Effects of meters in a circuit encompassing:

selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application.

measuring resistance using direct, volt-ammeter and bridge methods.

instruments used in the field to measure voltage, current, resistance and insulation resistance and the typical circumstances in which they are used.

hazards involved in using electrical instruments and the safety control measures that should be taken.

operating characteristics of analogue and digital meters.

correct techniques to read the scale of an analogue meters and how to reduce the 'parallax' error.

types of voltmeters used in the Electrotechnology industry – bench type, clamp meter, Multimeter, etc.

purpose and characteristics (internal resistance, range, loading effect and accuracy) of a voltmeter.

types of voltage indicator testers. e.g. LED, neon, solenoid, volt-stick, series tester, etc. and explain the purpose of each voltage indicator tester.

operation of various voltage indicator testers.

advantages and disadvantages of each voltage indicator tester.

various types of ammeters used in the Electrotechnology industry – bench, clamp meter, multimeter, etc.

purpose of an ammeter and the correct connection (series) of an ammeter into a circuit.

reasons why the internal resistance of an ammeter must be extremely low and the dangers and consequences of connecting an ammeter in parallel and/or wrong polarity.

selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application

connecting an analogue/digital voltmeter into a circuit ensuring the polarities are correct and take various voltage readings.

loading effect of various voltmeters when measuring voltage across various loads.

using voltage indicator testers to detect the presence of various voltage levels.

connecting analogue/digital ammeter into a circuit ensuring the polarities are correct and take various current readings.

#### T13 Resistance measurement encompassing:

Identification of instruments used in the field to measure resistance (including insulation resistance) and the typical circumstances in which they are used.

the purpose of an Insulation Resistance (IR) Tester.

the parts and functions of various analogue and digital IR Tester (selector range switch, zero ohms adjustment, battery check function, scale and connecting leads).

reasons why the supply must be isolated prior to using the IR tester.

where and why the continuity test would be used in an electrical installation.



- where and why the insulation resistance test would be used in an electrical installation.
- the voltage ranges of an IR tester and where each range may be used. e.g. 250 V d.c, 500 V d.c and 1000 V d.c
- AS/NZS3000 Wiring Rules requirements – continuity test and insulation resistance (IR) test.
- purpose of regular IR tester calibration.
- the correct methods of storing the IR tester after use
- carry out a calibration check on a IR Tester
- measurement of low values of resistance using an IR tester continuity functions.
- measurement of high values of resistance using an IR tester insulation resistance function.
- volt-ammeter (short shunt and long shunt) methods of measuring resistance.
- calculation of resistance values using voltmeter and ammeter reading (long and short shunt connections)
- measurement of resistance using volt-ammeter methods

#### T14 Capacitors and Capacitance encompassing:

- basic construction of standard capacitor, highlighting the: plates, dielectric and connecting leads
- different types of dielectric material and each dielectric's relative permittivity.
- identification of various types of capacitors commonly used in the Electrotechnology industry (fixed value capacitors -stacked plate, rolled, electrolytic, ceramic, mica and Variable value capacitors – tuning and trimmer)
- circuit symbol of various types of capacitors: standard; variable, trimmer and polarised
- terms: Capacitance (C), Electric charge (Q) and Energy (W)
- unit of: Capacitance (Farad), Electric charge (Coulomb) and Energy (Joule)
- factors affecting capacitance (the effective area of the plates, the distance between the plates and the type of dielectric) and explain how these factors are present in all circuits to some extent.
- how a capacitor is charged in a d.c. circuit.
- behaviour of a series d.c. circuit containing resistance and capacitance components. - charge and discharge curves

the term 'Time Constant' and its relationship to the charging and discharging of a capacitor.

- calculation of quantities from given information: Capacitance ( $Q = VC$ ); Energy ( $W = \frac{1}{2}CV^2$ ); Voltage ( $V = Q/C$ )
- calculation one time constant as well as the time taken to fully charge and discharge a given capacitor. ( $\tau = RC$ )
- connection of a series d.c. circuit containing capacitance and resistor to determine the time constant of the circuit

#### T15 Capacitors in Series and Parallel encompassing:

- hazards involved in working with capacitance effects and the safety control measures that should be taken.
- safe handling and the correct methods of discharging various size capacitors

- dangers of a charged capacitor and the consequences of discharging a capacitor through a person
- factors which determine the capacitance of a capacitor and explain how these factors are present in all circuits to some extent.
- effects of capacitors connected in parallel by calculating their equivalent capacitance.

#### **CE 102 Physics (EE 204)**

This unit covers the law of physics and how they apply to solving electrotechnology related problems. It encompasses working safely, knowledge of measurements of physical phenomena, linear and angular motion, harmonic motion, wave theory, optics, acoustics and heat capacity and transfer, use of measurement techniques, solving physics related problems and documenting justification for such solutions.

#### **KS01-EE082A Electrotechnology engineering physics**

Evidence shall show an understanding of electro engineering physics to an extent indicated by the following aspects:

T1 Measurement encompassing

- SI units in measurement of physical phenomena
- Uncertainty and tolerance

T2 Linear motion

T3 Angular motion

T4 Simple harmonic motion and vibration

T5 Wave theory

- Interference

- Diffraction

T6 Electromagnetic waves and propagation

T7 Optics

- Mirrors and lenses

- Optical fibre

T8 Acoustics and ultrasonics

T9 Heat capacity and heat transfer

- Fluid power

#### **CE 109 Energy Efficient Building Design (EE309)**

This unit covers evaluating energy used in buildings and developing and documenting strategies/methods to effectively reduce energy use without compromising occupancy standards. It encompasses working safely, setting up and conducting evaluation measurements and evaluating energy use from measured parameters.

#### T1 Climate and thermal comfort encompassing:

- ↯ characteristics of the different Australian climatic types.
- ↯ use of climatic data in published and electronic forms to extract the quantities relevant to energy efficient design.
- ↯ relationship between climate and comfort using bioclimatic or psychrometric charts.
- ↯ calculation of heating or cooling degree days or degree hours for various locations.
- ↯ calculation of thermal neutrality for a given location.

#### T2 Solar geometry and radiation encompassing:

- ↯ definition of the terms: declination, hour angle, zenith angle, azimuth and altitude angles, the equation of time.
- ↯ conversion of solar time to local time and vice versa.
- ↯ position of the sun and the length of shadows with the aid of algorithms, tables, sun charts or computer software.
- ↯ daily irradiation incident on a wall, window or roof of a given tilt and orientation.
- ↯ relative summer and winter irradiation of windows facing the cardinal orientations.

#### T3 Heat transfer encompassing:

- ↯ thermal processes of conduction, convection and radiation apply to the transfer of heat in buildings.
- ↯ calculation of the summer and winter U-values of building elements using tables and software.
- ↯ calculation of the infiltration heat transfer in a building.

#### T4 Glazing Systems encompassing:

- ↯ different types of glazing systems and their characteristics.
- ↯ different types of shading devices and the window orientations for which they are most appropriate.
- ↯ solar heat gain for different glazing types and angles of incidence

↯ calculation of the average daily irradiation of a window partly shaded by eaves, using computer software.

↯ calculation of the average daily heat gain through a window partly shaded by eaves.

#### T5 Insulation encompassing:

↯ different types of insulation and where they are used.

↯ how different types of insulation are installed in roofs, walls and floors

.

↯ determination of the minimum R-values of roof insulation for different locations using Australian Standard AS2627 or similar standards.

#### T6 Thermal mass encompassing:

↯ advantages and disadvantages of using substantial thermal mass in different climate types and for different heating and cooling regimes.

↯ where thermal mass can be located in a building.

↯ explain what is meant by the following terms: time lag, decrement factor, admittance, response factor.

#### T7 Comfort control strategies encompassing:

↯ interpretation of the usefulness of a design strategy with the aid of a psychrometric chart showing control potential zones for a particular location.

↯ selection of the most useful comfort control strategies for Australian climatic regions.

#### T8 Energy efficiency in buildings encompassing:

↯ determination of the direction of the following: both true and magnetic, north winter and summer sunrise, winter and summer sunset.

↯ solar access in summer and winter to various possible house locations on a site and room locations

within the house.

- └ how vegetation can be used to both funnel and deflect wind.

- └ using cross ventilation as a cooling strategy.

T9 Thermal performance of a building encompassing:

- └ heating requirements of a building using the heating degree day or hour method.

- └ dynamic performance predicted by a computer simulation program such as NatHERS or BERS.

T10 Integration of active solar systems encompassing:

- └ active solar system types available which can provide hot water, space heating and cooling.

- └ the best location on the roof, and the optimum tilt and orientation of the collector panels.

- └ function of the main components of an air or water-based solar space heating system.

- └ schematic of the fluid circuit of an air or water-based space heating system.

- └ main solar cooling system types.

T11 Energy rating schemes encompassing:

- └ differences in approach used by house energy rating schemes in Australia.

- └ energy performance of a number of houses using a computer simulation program such as NatHERS or BERS.

- └ other methods to reduce energy consumption within and outside a building including appliance efficiency, human behaviour changes, building management strategies and transportation minimisation.

- └ additional cost of energy efficiency measures and cost savings using life cycle cost or simple pay back

methods according to Aust. Standard AS3595 and AS4536.

T12 Sustainable and safe building materials encompassing:

- ¬ common building materials and their embodied energy content.
- ¬ environmental impact of the production of various building materials.
- ¬ problems associated with the use or disposal of building materials.

EE102	Basic Electrical Fitting & Wiring
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This unit covers fixing, securing and mounting techniques as apply in the various electrotechnology work functions. It encompasses the safe use of hand and portable power tools, safe lifting techniques, safe use of ladders and elevated platforms and the selection and safe application of fixing devices and supporting accessories/equipment.

#### **KS01-EE105A Fixing and support devices/techniques**

Evidence shall show an understanding of accessories and support and fixing device and methods and their use to an extent indicated by the following aspects:

T1. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to hollow walls encompassing:

- ¬ types and safe application of devices for hollow wall fixing and support
- ¬ methods/techniques used to fix/support to wood, hollow wall, masonry blocks, plasterboard, panelling
- ¬ types and safe application of fixing devices used in the electrotechnology industry for wood and hollow wall structures (wood screws, coach bolts, self-tappers, self drilling, metal thread, hollow wall anchors, behind plaster brackets, stud brackets, plasterboard devices, toggle devices)
- ¬ types of tools used for hollow wall fixing and supporting.
- ¬ using various fixing methods to fix/support to hollow walls.

T2. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to solid walls encompassing:

- ¬ types and safe application of devices used for solid wall fixing and support
- ¬ methods/techniques used in to fix to masonry and concrete structures

- fixing devices used in the electrotechnology industry for solid wall structures (wall-plugs, expanding concrete fixing devices, gas powered fixing tools, powder actuated fixing tools, loxins, dynabolts, chemical devices)
- regulatory requirements for use of powder fixing tools.
- hand and power tools used in fixing and supporting accessories
- using various fixing methods to fix/support to solid walls

T3. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to metal fixing encompassing:

- accessories that may be fixed to metal (saddle clips, conduits, brackets, switches)
- techniques for fixing to metal
- fixing devices: coach bolts, self-tappers, metal thread bolts, hollow wall anchors, rivets
- fixing tools - spanners, screwdrivers, power screw drivers, pop riveters, files, reamers
- OH&S issues related to drilling, cutting, eye protection, metal filings, swarf, noise
- Using power drills, drill bits, change drill speeds.
- Install a fixing device and accessory capable of supporting up to 20 kg on the metal plate.

T4. Securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories using fixing adhesives and tapes encompassing:

- types and safe application of using adhesives and tapes as fixing devices (load limits of different commercial products)
- accessories that may be fixed using adhesives and tapes
- techniques for the application of adhesives and tapes
- tools used to apply and cut adhesives and tapes
- hazards and safety measures when working with adhesives and chemical fixing devices (fumes, cutting, eye protection, physical contact, hand protection, ingestion)

EE104	Electrical Equipments Safety Protection
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This unit covers the arrangement and termination of circuits, control and protection devices and systems for electrical installations operating at voltages up to 1,000 V a.c. or 1,500 V d.c. It encompass knowledge and application of schemes for protection of persons and property, correct functioning, ensuring compatibility with the supply, arranging installation into circuits and selecting and arranging switchgear/controlgear and protective devices to meet compliance requirements and documenting arrangement decisions

#### **KS01-EG063A Electrical installations — arrangement, control and protection**

Evidence shall show an understanding of circuit arrangements, control and protection of electrical installations that comply with the Wiring Rules and Service Rules to an extent indicated by the following aspects:

T1 Safety principles to which electrical systems in building and premises shall comply.

- Safety principles are given in Part1 (Section 1) of the Wiring Rules AS/NZS 3000 with deemed-to-comply requirements given in Sections 2 to 8.
- Compliant methods for providing protection - include those for providing protection against direct and indirect contact; thermal effects; unwanted voltages; overcurrent; fault currents; overload; overvoltage; injury from mechanical movement.
- Requirements for installation design and selection of equipment - includes compliant protection arrangements; correct functioning; compatibility with supply; estimation of maximum demands; voltage drop considerations; arrangement of circuits and the like

#### T2 Circuit and control arrangements encompassing:

- reason for dividing electrical installations into circuits
- factors that shall be considered in determining the number and type of circuits required for an installation.
- daily and seasonal demand for lighting power, heating and other loads in a given installation.
- number and types of circuits required for a particular installation.
- diagrams/schedules of circuits for given installations.
- application and arrangements of SELV and PELV circuits
- application and arrangement of an isolated supply

#### T3 Hazards and risks in an electrical installation encompassing:

- effects on the human body of various levels of a.c. and d.c. current and duration of current flow for various current paths.
- risk of ignition of flammable materials due the thermal effects of current or electric arcs in normal service of an electrical installation.
- risk of injury from mechanical movement of electrically actuated equipment.
- Protection against direct contact (basic protection)
- acceptable methods
- use of extra-low voltage

#### T4 Protection against indirect contact encompassing:

- indirect contact with live parts of an electrical installation may occur.
- methods and devices that comply with the Wiring Rules for providing protection against indirect contact.
- components of the 'automatic disconnection of supply' method of protection against indirect contact.
- the terms 'touch voltage' and 'touch current'.
- the current path when a short circuit fault to exposed conductive parts of an appliance occurs.
- protection against indirect contact is by the use of Class II equipment and by electrical separation.
- additional protection by use of Residual Current Devices (RCDs)
- protection against indirect contact by use of extra-low voltage and electrical separation.
- Protection requirements for damp situations.



#### T5 Earthing encompassing:

- the terms: earthed, earthed situation, earth electrode, equipotential bonding, multiple earthed neutral (MEN) system, protective earth-neutral (PEN) conductor, main earthing conductor, protective earthing (PE) conductor, functional earthing, MEN link.
- selection of minimum size-earthing conductor for a range of active conductor sizes and materials.
- parts of an earthing system and the purpose of each.
- typical arrangement for a MEN earthing system.
- arrangements of protective earthing conductors that comply with the Wiring Rules.
- requirements for equipotential bonding in a range of installation situations.
- Installation of a MEN earthing system for a single phase installation

#### T6 Protection against overload and short circuit current encompassing:

- overload current or fault currents in an electrical installation.
- equivalent circuit of an earth fault-loop
- level of fault current possible at a given point in an installation from the fault-loop impedance and data from the electricity distributor.
- methods and devices that comply with the Wiring Rules AS/NZS 3000 for providing protection against the damaging effects of overload and fault current
- requirements for co-ordination between protective devices and conductors
- requirements for co-ordination of protection devices for discrimination and back-up protection.

#### T7 Devices for automatic disconnection of supply encompassing:

- operating principles of thermal/magnet circuit breakers.
- operating principles of common types of fuses.
- operating principles of residual current devices (RCD).
- time/current curves tripping characteristics of various types of circuit breakers that comply with the requirements of the Wiring Rules.
- time/current curves fusing characteristics of various types of fuses that comply with the requirements of the Wiring Rules.
- time/current curves tripping characteristics of various types of RCDs that comply with the requirements of the Wiring Rules.
- factors in a fault loop that will affect the impedance of the circuit.
- maximum impedance of an earth fault-loop to ensure operating of a protection device.
- selecting a fuse for fault current limiting protection.
- drawing switchboard wiring arrangements of 2-pole RCDs, 4-pole RCDs, combination RCD/MCBs.

#### T8 Protection against over voltage and under voltage encompassing:

- causes of over voltage and how this may affect the electrical system.
- methods for protection against over voltage.
- causes of under voltage and how this may affect the electrical system.

– methods for protection against under voltage.

T9 Control of an electrical installation and circuits encompassing:

- switch types, current and voltage ratings and IP rating and where these apply.
- switching requirements for isolation, emergency, mechanical maintenance and functional control.
- control arrangement for complete installations with and without safety services and an alternative supply.

T10 Switchboards / distribution boards encompassing:

- Purpose, types and applications.
- Physical and circuit arrangements for whole current and CT metering.
- Physical and circuit arrangements of main switches, circuit protection devices, fault-current limiters and metering equipment and other distributor equipment.
- compliance requirements (includes location and access, arc fault protection, identification, construction suitability, equipment marking, wiring, fire protection and arc-fault protection).

EE105	Electrical Installation Design
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This unit covers selecting wiring systems and cables for electrical installations operating at voltages up to 1,000V a.c. or 1,500 V d.c. It encompass knowledge and application of wiring systems and cable types, selecting wiring system compatible with the installation conditions, selecting cables that comply with required current-carrying capacity and voltage drop and earth fault-loop impedance limitations, coordination between protective devices and conductors and documenting selection decisions

#### **KS01-EG107A Electrical installation — cable selection and co-ordination**

Evidence shall show an understanding of selecting cables and ensuring co-ordination between protection device and conductors in electrical installations that comply with the Wiring Rules, Selection of cables standards and Service Rules to an extent indicated by the following aspects:

T1 Performance requirements - design and safety encompassing:

- harmful effects against which the design of an electrical installation must provide protection.
- performance standards of a correctly functioning electrical installation.
- supply characteristics that shall be considered when designing an electrical installation.
- acceptable methods for determining the maximum demand in consumer's mains and sub-mains.
- AS/NZS 3000 requirements limiting voltage drop in an installation.
- reason for dividing electrical installations into circuits and the factors that shall determine their number and type.
- typical external factors that may damage an electrical installation and that shall be considered in the installation design.
- methods for protecting persons and livestock against direct and indirect contact with conductive parts and the typical application of each.
- acceptable methods of protection against the risks of ignition of flammable materials and injury by burns from the thermal effects of current, in normal service.
- likely sources of unwanted voltages and the methods for dealing with this potential hazard.

- acceptable methods for protecting persons and livestock against injury and property against damage from the effects of over current.
- requirement for protection against fault current.
- requirement for protection against the harmful effects of faults between live parts of circuits supplied at different voltages.
- need for protection against injury from mechanical movement and how this may be achieved.
- features of 'fire rated construction' and how the integrity of the fire rating can be maintained in relation to electrical installation.

#### T2 Final subcircuit arrangements encompassing:

- factors that shall be considered in determining the number and type of circuits required for an installation.
- daily and seasonal demand for lighting, power, heating and other loads in a given installation.
- number and types of circuits required for a particular installation.
- current requirements for given final subcircuits.
- layout/schedule of circuits for given installations.

#### T3 Factors affecting the suitability of wiring systems encompassing:

- wiring systems typically used with various construction methods and particular environments.
- installation conditions that may affect the current-carrying capacity of cables.
- external influences that may affect the current-carrying capacity and/or may cause damage to the wiring system.
- AS/NZS 3000 requirements for selecting wiring systems for a range of circuits, installation conditions and construction methods into which the wiring system is to be installed. Note: Wiring systems include cable enclosures, underground wiring, aerial wiring, catenary support, emergency systems, busbar trunking and earth sheath return.

#### T4 Maximum demand on consumer's mains/submains encompassing:

- acceptable methods for determining the maximum demand on an installation's consumer's mains and submains.
- maximum demand for the consumer's mains for given installations up to 400 A per phase.
- maximum demand for given submains.

#### T5 Cable selection based on current carrying capacity requirements encompassing:

- installation conditions for a range of wiring systems and applications.
- external influences that require the use of a derating factor.
- AS/NZS 3000 requirements for coordination of cables and protection devices.
- AS/NZS 3008 used to select conductor size based on the maximum current requirement for a given installation condition including any applicable derating factors.

#### T6 Cable selection based on voltage drop requirements encompassing:

- AS/NZS 3000 requirements for maximum voltage drop in an installation.

- relevant tables in AS/NZS 3008 for unit values of voltage drop.
- calculation of the expected voltage drop in a given circuit.
- selecting cables to satisfy voltage drop requirements in addition to current carrying capacity requirements.

T7 Cable selection based on fault loop impedance requirements encompassing:

- AS/NZS 3000 requirements for maximum fault loop impedance in an installation.
- relevant tables in AS/NZS 3008 to determine cable impedances.
- calculation of the expected fault loop impedance for a given circuit arrangement.
- selecting cables to satisfy fault loop impedance requirements in addition to current carrying capacity requirements and voltage drop requirements.

T8 Selecting protection devices encompassing:

- acceptable methods of protection against indirect contact.
- AS/NZS 3000 requirements for selecting methods and devices to protect against indirect contact for a range of installation types and conditions.
- coordination between conductors and protection devices to ensure the protection of cables from over heating due to over current.
- possible injuries to persons and livestock from hazards due to a short circuit.
- AS/NZS 3000 requirements for selecting devices to protect against overload current for a range of circuits and loads.
- AS/NZS 3000 requirements for selecting devices to protect against short-circuit current for a range of installation conditions.

T9 Selecting devices for isolation and switching encompassing:

- requirements for the provision of the isolation of every circuit in an electrical installation.
- need for protection against mechanical movement of electrically activated equipment.
- AS/NZS 3000 requirements for selecting devices for isolation and switching for a range of installations and conditions.

T10 Switchboards encompassing:

- AS/NZS 3000 and local supply authority requirements for switchboards.
- tariff structures for the supply of electricity.
- equipment installed at the main switchboards with capacities up to 400 A per phase.
- layout of a main switchboard for an installation supplied with single phase single tariff whole current metering.
- layout of a main switchboard for an installation supplied with single phase multiple tariff whole current metering.
- layout of a main switchboard for an installation supplied with multiphase single tariff whole current metering.
- layout of a main switchboard for an installation supplied with multiphase multiple tariff whole current metering.
- layout of a main switchboard for a multiple tenancy installation with whole current metering.
- layout of a main switchboard, including metering, for an installation supplied with three phase CT metering.
- local supply authority requirements for connection of an electrical installation to the electrical supply system

EE106	Advanced Electrical Wiring
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This unit covers the installation in building and premises of wiring enclosures, cable support systems, cables and accessories and designed to operate at voltages up to 1,000 V a.c. or 1,500 V d.c. It encompasses working safely and to installation standards, routing cables to specified locations, terminating cables and connecting wiring at accessories and completing the necessary installation documentation.

### **KS01-EG103A Installation of wiring systems**

Evidence shall show an understanding of the installation of wiring systems that comply with standards to an extent indicated by the following aspects:

T1 Standards, codes and requirements applicable to the installation of wiring systems encompassing:

- Cables and methods of mechanical protection and support
- Protection against and from other services.
- Prohibited cable locations
- Building codes affecting the installation of cables in buildings, structures and premises (limitation on penetration of structural elements, maintenance of fire protection integrity, and wiring above suspected ceilings)
- Issues affecting electrical installations in heritage buildings and premises (limitation on penetration of structural and finished elements, accessing cable routes, types and colour of exposed accessories).

T2 Use of other installation standards called up by the Wiring Rules for special situations encompassing:

- standards that apply to Electromedical treatment areas.
- additional requirements for construction and demolition sites.
- Relocatable installations and their site supply
- additional requirements for caravan park.
- additional requirements for marinas and pleasure craft at low voltage.
- additional requirements for shows and carnivals.

T3 Hazardous areas encompassing:

- Conditions that apply in an areas that require them to be classified as a 'Hazardous area'.
- Responsibility for classifying a hazardous area
- Awareness of standards called up by the Wiring Rules for selection of equipment and installations in Hazardous areas. (AS/NZS 3000 requirements for hazardous areas).

T4 Requirement for the installation of cables and accessories in damp situations and ELV installations encompassing:

- restricted zones around baths, showers, fixed water containers, pools, sauna heaters and fountains/water features for given installations.
- selecting equipment suitable for installation in given damp situations.
- voltage range that defines extra-low voltage.
- 'Separated extra-low voltage (SELV) system' and a 'Protected extra-low voltage (PELV) system'.
- AS/NZS 3000 requirements for selecting extra-low voltage systems and devices for a range of installations and conditions.

#### T5 Aerial cabling encompassing:

- Describe the types of aerial cabling.
- State the AS/NZS 3000 and local supply authority requirements for aerial cabling.
- Termination of aerial cables in accordance with AS/NZS 3000 and local requirements.
- installation of consumers mains for connection via overhead consumers terminals in accordance with AS/NZS 3000 and local requirements.
- Testing of installed cables compliance with Australian Standards

#### T6 Underground cabling encompassing:

- Describe permissible underground cabling systems.
- Identify other underground services.
- State the AS/NZS 3000 and local supply authority requirements for underground cabling.
- List the advantages and disadvantages of underground wiring systems
- selection of underground consumers mains in accordance with AS/NZS 3000 and local requirements

#### T7 Techniques for installing cables and wiring systems encompassing:

- Typical cable routes through buildings, structures and premises.
- Application of wiring accessories
- Drawing-in, placing and fixing of cables
- Cable and conductor terminations
- Maintaining fire rating integrity.
- Inspecting and testing installed and terminated cables to ensure they comply with continuity and insulation resistance and are safe to connect to the supply.

EE308	Sustainability
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This unit covers developing strategies to address environmental and sustainability issues in the energy sector. It encompasses working safely, apply extensive knowledge of sustainable energy systems and components and their operating parameters, gathering and analysing data, applying problem solving techniques, developing and documenting alternatives solutions

Evidence shall show an understanding of greenhouse reduction strategies to an extent indicated by the following aspects:

T1 Principles of sustainability encompassing:

- ↯ ways in which ecosystems moderate climate. ways in which ecosystems purify and store water.
- ↯ ways in which ecosystems recycle waste.

T2 Problems in a sustainable world encompassing:

- ↯ changes to Australian forest cover since white settlement, and the resulting loss of ecosystem and human benefits.
- ↯ changes to Australia's soils since white settlement, and the resulting loss of ecosystem and human benefits.
- ↯ changes to Australia's waterways since white settlement, and the resulting loss of ecosystem and human benefits.
- ↯ place of environmental accounting in quantifying Australia's environmental losses.
- ↯ limits to Australia's population carrying capacity.

T3 Sustainability principles encompassing:

- ↯ principles within sustainability including: environmental accounting and economics; full cost pricing; triple bottom line ethic; ecologically sustainable development; greenhouse gas abatement; energy efficiency; resource and water use efficiency; life cycle costing; renewable energy substitution, cleaner production; waste minimisation, reuse and recycling; ecological footprint.

T4 Addressing the problem of global warming encompassing:

- ↯ greenhouse gases and their sources and quantities that contribute to global warming.
- ↯ global warming impacts for Australia for 2030 and 2070 predicted by CSIRO modelling.
- ↯ requirements to achieve stable atmospheric concentrations of greenhouse gases.

↯ ecologically and economically sustainable methods for achieving these stable concentrations.

T5 Greenhouse gas emissions profile encompassing:

- ↯ goals and principles of the National Greenhouse Strategy
- ↯ what a greenhouse gas inventory is, why it is required, and the sectors to which it applies
- ↯ uses to which the National Greenhouse Gas Inventory can be applied.

T6 Understanding and communicating climate change and its impacts encompassing:

- ↯ the possible impact of climate change in Australia.
- ↯ techniques for improving the understanding of climate change
- ↯ techniques for communicating to and educating the general

public on greenhouse gas induced climate change.

T7 Partnerships for greenhouse action encompassing:

- ↯ actions achievable by each level of government to implement the NGS.
- ↯ methods by which the community activity can be engaged in the reduction of greenhouse gas emissions.
- ↯ initiatives that can be undertaken by the private sector to reduce greenhouse gas emissions.
- ↯ advantages of international partnerships.
- ↯ emissions trading system.

T8 Efficient and sustainable energy use and supply encompassing:

- ↯ techniques for reducing the greenhouse intensity of energy supply.
- ↯ types of renewable energy sources suitable for use in Australia.
- ↯ methods and technique for improving end-use efficiency.

T9 Efficient transport and sustainable urban planning encompassing:



↯ how integrating land use and transport planning can assist the greenhouse problem.

↯ how each of the following can be used to mitigate greenhouse gas; travel demand and traffic management strategies; encouraging greater use of public transport, walking and cycling; freight and logistics systems; improving vehicle fuel efficiency and fuel technologies;

T10 Greenhouse sinks and sustainable land management encompassing:

↯ how enhancing greenhouse sinks and encouraging sustainable forestry and vegetation management can complement the AGS.

↯ how greenhouse gas emissions are obtained from agricultural production and describe techniques to mitigate the emissions.

T11 Models of greenhouse best practice in industrial processes and waste management encompassing:

↯ types and methods of reducing greenhouse gas emissions from industry.

↯ methods of reducing methane emissions from waste

treatment and disposal.

T12 Adaptation to climate change encompassing:

↯ salient points in each of the key sectors that require analysis and the strategies required in the need for adaptation to climate change

#### ME 301/ CE 104 Fluid Dynamics

Body forces, compressible flow, Navier stroke equation, fluid energy equation, incompressible flow, turbulent flow, instantaneous & average velocity in turbulent flow, inviscid flow, boundary layer approximation.

#### CE 105 Hydraulic

#### CE 106 Hydrology

Fluid, hydraulic jack, pressure head of fluid, total pressure in immersion surface, buoyancy, pressure gauge, condition of equilibrium, hydrodynamics, head of liquid, Bernaulli's theorem, Venturi meter, water jet, vortex, orifice, flow through orifice, Francis formula, triangular notch, trapezoidal notch, broad crest weir, friction & flow through pipes, flow through nozzle, turbine.

#### CE 106A Detailed construction & Building Construction Materials

Brick laying, bonding, junction, wall corner, joint arch, brick paving, brick steps, chimney, roof plumbing, eaves gutter, sprouting mitre, gutter joining, sprouting, external / internal angle making PVC angle, moulded angle, obtuse angle, return stop end, sprouting outlet , pvc outlet, joining sprouting bracket.

#### CE 104A Building Drawing

Scope, drawing paper, scale, instruments, terms, abbreviations, symbols, building geometry, plan, elevation, sections, re-production of drawings, lettering, perspective drawing, 3 dimensional drawing, drawing layout , setting out detailed drawing, detailed construction, joinery details, room schedule, door schedule, window schedule, hardware schedule, schedules of finishes, painting schedule, colour schedules, miscellaneous schedules, structural drawing, frame, RC, beam schedule, structural steel work, electrical drawing, drainage measured drawing, survey drawings, working drawing, alteration plan.

#### CE 110 Building Construction

Types of loads, beam, shear diagram, roof trusses, foundation engineering, standard penetration test, soil profile, bearing capacity analysis, retaining wall, footing, steel grades, fasteners, weld, truss applications, bracing tall buildings, wind connection for beam/ columns, brace bay, steel joist floors, roof systems, concrete joints, foundations, wall system, fastenings, timber trusses, timber decking, plank and beam frame, fabrication of structural timber, masonry walls, support condition for walls, stud wall construction, partitions, installation methods, floor systems, window / door structure, sand vibration control, roof insulation.

#### CE 103 Surveying

Art of measuring, slope correction, surveying instruments, level bench mark booking, observation reduce level, error reduction, change of point, HPC method, two peg test, grid level.

#### CE 106 Hydrology + ME 204 Fluid Mechanics

Axial flow reaction turbine, inward flow reaction turbine, hydrostatics, centre of pressure, Buoyancy, hydrodynamics, orifice, water turbines, venturi meters, weirs.

#### CE 107 Sanitation/ Water Supply

Basic principle of plumbing, water supply fittings, sanitary drainage system, storm drainage, compression joints, types of pipes, pipe fitting layout, piping installation, schematic wet column, ferrous metal pipes, piping supports, thermal expansion, hot water piping expansion loop, gate valve, globe valve, check valve, ball valve, plumbing fixture usage, basin sink installation, plumbing fitting diagram, plumbing pumping symbols, piping single line drawing, piping installation system, water circulation systems, piping layout for lot, roof drainage.

#### CE 112 Engineering Mechanics

- Hydraulic jack, stress/ strain , strength of materials, Hooke's law, stress due to thermal expansion, pressure vessel, rivet joints, bending of beams
- Vector, vector diagram, jig gear, reciprocating engine mechanism, framed structures, non coplanar forces, velocity acceleration , projectile, relative velocity, mass acceleration force, work/ power/ energy/ centripetal acceleration
- Stress in beams, tension, hydraulics

#### CE 113 Structure 1

- Strength of materials, elongation, stress/ strain problems, impact stress.
- Mechanical properties of materials, stress, compound bars, torsion, moment of resistance, bending moment and shear force.

#### CE 114 Structure 2

- Members subject to bending, section moment capacity, member capacity of segments with full lateral restraint, design of webs, shear capacity of webs, interaction of shear and bending
- Design of intermediate transverse web stiffeners
- Members subject to axial compression
- Members subject to axial tension
- Members subject to combined actions.
- Fabrication, erection

#### Study sequence of structure

CE 113 Structure 1

CE 112 Engineering Mechanics

CE 114 Structure 2

#### CE 115 Estimating & Specification

- Principle of specification & estimation
- Overheads
- Profit
- Labour cost
- Preliminaries
- Labour constant
- Material motor transport
- Mechanical plant
- Excavator
- Earth work
- Brick work
- Roofing
- Carpentry
- Joinery
- Plumbing installation
- Electrical installation
- Plaster work
- Glazing
- Painting decoration
- Drainage
- Pro-rata rate
- Incentive scheme

#### CE 111A Road & Bridge

##### Bridge

Types of bridges, truss, cantilever bridge, arch bridge, suspension bridge, double deck bridge, iron brick bridge, iron brick bridge maintenance

##### Railways

- Alignment , centrifugal force, track

## Road

Technical design, alignment, structural design, road pavement , road alignment, intersection points, final centre design work, technical assessment, final choice, time management plan, construction sequence, daily work planning, gang balancing, work control, site camping, hand tools, maintenance, storage, setting out traveller, earth work, embankment, earth work calculation, drainage, road surface drainage, erosion control, cut off drain, site location, work procedures.

## ME 102 Engineering Thermodynamics

-Thermodynamic system, thermodynamic properties, quality of the working substances, thermodynamic processes, ideal gas, gas equation during a change of state, thermodynamic process for gas, vanderwaal gas equation, entropy, properties of steam, thermodynamic of working fluids

-Gas problems, method of expansion/compression, first law of thermodynamics, throttling valve, second law of thermodynamics, third law of thermodynamics

## ME 334 Air-conditioning & Refrigeration

- Refrigerant piping, evaporator, compressor, condenser, compressor-condenser circuit, tools
- Air-conditioning equipment, tubing, joining refrigeration piping
- Nitrogen circuit, system charging, electrical test instruments, control equipments, thermostat, compressor
- Control circuit equipment assembly, dual fuel furnace, humidification, comfort, ventilation duct, plenum system.
- Ventilation installation, ventilation fixtures, evaporator outlet temperature, assembly of units, capillary tube, installation of indoor / outdoor units.

EE308	Sustainability
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This unit covers developing strategies to address environmental and sustainability issues in the energy sector. It encompasses working safely, apply extensive knowledge of sustainable energy systems and components and their operating parameters, gathering and analysing data, applying problem solving techniques, developing and documenting alternatives solutions

## KS01-EK132A

### Environmental and Sustainability strategies

Evidence shall show an understanding of greenhouse reduction strategies to an extent indicated by the following aspects:

T1 Principles of sustainability encompassing:

↯ ways in which ecosystems moderate climate. ways in which ecosystems purify and store water.

↯ ways in which ecosystems recycle waste.

T2 Problems in a sustainable world encompassing:

↯ changes to Australian forest cover since white settlement, and the resulting loss of ecosystem and human benefits.

↯ changes to Australia's soils since white settlement, and the resulting loss of ecosystem and human benefits.

↯ changes to Australia's waterways since white settlement, and the resulting loss of ecosystem and human benefits.

↯ place of environmental accounting in quantifying Australia's environmental losses.

↯ limits to Australia's population carrying capacity.

T3 Sustainability principles encompassing:

- principles within sustainability including: environmental accounting and economies; full cost pricing; triple bottom line ethic; ecologically sustainable development; greenhouse gas abatement; energy efficiency; resource and water use efficiency; life cycle costing; renewable energy substitution, cleaner production; waste minimisation, reuse and recycling; ecological footprint.

T4 Addressing the problem of global warming encompassing:

- greenhouse gases and their sources and quantities that contribute to global warming.
- global warming impacts for Australia for 2030 and 2070 predicted by CSIRO modelling.
- requirements to achieve stable atmospheric concentrations of greenhouse gases.
- ecologically and economically sustainable methods for achieving these stable concentrations.

T5 Greenhouse gas emissions profile encompassing:

- goals and principles of the National Greenhouse Strategy
- what a greenhouse gas inventory is, why it is required, and the sectors to which it applies
- uses to which the National Greenhouse Gas Inventory can be applied.

T6 Understanding and communicating climate change and its impacts encompassing:

- the possible impact of climate change in Australia.
- techniques for improving the understanding of climate change
- techniques for communicating to and educating the general

public on greenhouse gas induced climate change.

T7 Partnerships for greenhouse action encompassing:

- actions achievable by each level of government to implement the NGS.
- methods by which the community activity can be engaged in the reduction of greenhouse gas emissions.
- initiatives that can be undertaken by the private sector to reduce greenhouse gas emissions.
- advantages of international partnerships.
- emissions trading system.

T8 Efficient and sustainable energy use and supply encompassing:

- techniques for reducing the greenhouse intensity of energy supply.
- types of renewable energy sources suitable for use in Australia.
- methods and technique for improving end-use efficiency.

T9 Efficient transport and sustainable urban planning encompassing:

- ↯ how integrating land use and transport planning can assist the greenhouse problem.
- ↯ how each of the following can be used to mitigate greenhouse gas; travel demand and traffic management strategies; encouraging greater use of public transport, walking and cycling; freight and logistics systems; improving vehicle fuel efficiency and fuel technologies;

T10 Greenhouse sinks and sustainable land management encompassing:

- ↯ how enhancing greenhouse sinks and encouraging sustainable forestry and vegetation management can complement the AGS.
- ↯ how greenhouse gas emissions are obtained from agricultural production and describe techniques to mitigate the emissions.

T11 Models of greenhouse best practice in industrial processes and waste management encompassing:

- ↯ types and methods of reducing greenhouse gas emissions from industry.
- ↯ methods of reducing methane emissions from waste treatment and disposal.

T12 Adaptation to climate change encompassing:

- ↯ salient points in each of the key sectors that require analysis and the strategies required in the need for adaptation to climate change

### Year (1)

#### Certificate in Mechanical Engineering ( Each 1.5 Credits) ( 15 Pt )

Unit Number	Unit Name	Credit Points
<a href="#">Maths 101</a>	<a href="#">Engineering Mathematics (EE201)</a>	1.5
<a href="#">ME 101</a>	<a href="#">Applied Mathematics</a>	1.5
<a href="#">ME 102</a>	<a href="#">Engineering Thermodynamics</a>	1.5
<a href="#">ME 103</a>	<a href="#">Engineering Mechanics</a>	1.5
<a href="#">ME 104</a>	<a href="#">Machine Principle</a>	1.5
<a href="#">ME 105</a>	<a href="#">Electrical Principle</a>	1.5
<a href="#">ME 106</a>	<a href="#">Electrical Circuits</a>	1.5
<a href="#">ME 107</a>	<a href="#">Heat Transfer</a>	1.5
<a href="#">ME 108</a>	<a href="#">Principle of Engines</a>	1.5
<a href="#">ME201</a>	<a href="#">Introduction to Fluid Mechanics</a>	1.5
	Total	15

#### Diploma in Mechanical Engineering ( Each 1.5 Credits) ( 15 Pt )

[ME 202 Introduction to Aero Dynamics](#)

[ME 203 Control Engineering](#)

[ME 204 Engineering Fluid Mechanics](#)

[ME 205 Manufacturing Processes-and-Materials](#)

[ME 206 Introduction to Turbo Machinery](#)

[ME 207 Chemical Thermodynamics](#)

[ME 208 Hydrocarbons](#)

[ME 209 Introduction-to-polymer-science-and-technology](#)

[ME 234 Wind Turbines](#)

[Mgt 501 Basic Management](#)

## Year (2)

### Advanced Diploma in Mechanical Engineering ( Each 1.5 Credits) ( 30 Pt)

#### Mathematics

[Maths 403 Engineering-Mathematics \(EE302\)](#)

[Maths 301 Introductory Finite Difference Methods-for-pdes](#)

[Maths 302 Elementary-Linear-Algebra \(EE302\)](#)

[Maths 303 Introductory Finite Volume Methods-for-pdes](#)

[Maths 501 Linear Algebra-c-1 \(EE302\)](#)

#### Mechanical Engineering

[ME 301 Fluid Dynamics](#)

[ME 302 Automation-and-Robotics](#)

[ME 303 Computer Aided Design and Manufacturing](#)

[ME 304 Introduction to Nonlinearity-in-control-systems](#)

[ME 305 Corrosion Prevention](#)

[ME 306 Theory-of-waves-in-materials](#)

[ME 334 Airconditioning and Refrigeration](#)

[ME 434 Mechtronics-Robotics](#)

[ME 534 Numerical Control](#)

[ME 634 Pneumatics](#)

[EE 617 Building Electrical and Mechanical System Part 1 \(EE309\)](#)

[EE 624 Process Control](#)

[Mgt 503 Production & Operation Management](#)

[Mgt 505 Quality Management and Manufacturing Engineering](#)

Maths 101	Engineering Mathematics (EE201)
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This unit covers the application of computational processes to solve engineering problems. It encompasses working safely, applying problem solving techniques, using a range of mathematical processes, providing solutions to electrical/electronics engineering problems and justifying such solutions.

Note. Typical engineering problems are those encountered in meeting requirements in a design brief, meeting performance requirements and compliance standards, revising systems operating parameters and dealing with system malfunctions

### **KS01-EE126A Electrotechnology engineering maths**

Evidence shall show an understanding of electrotechnology engineering maths to an extent indicated by the following aspects:

#### **T1 Rational, irrational numbers and basic algebra**

- simplification of expressions involving square roots and cube roots
- scientific and engineering notation
- evaluation of expressions using a calculator
- convert units of physical quantities using unity brackets
- substitute given values into formulae to find physical quantities
- manipulate algebraic expressions using mathematical operations in their correct order, the laws of indices, expansion of brackets and collecting like terms

#### **T2 Algebraic manipulation**

- Factorise algebraic expressions using common factors
- Factorise quadratic expressions using trial and error on the factors of the coefficients
- Simplify algebraic fractions using common denominators and cancelling
- Solve simple one variable equations including algebraic fractions
- Find the quotient and remainder given a linear divisor.
- Transpose formulae to find a required variable.

#### **T3 Laws of indices**

- Conversion between decimal notation, scientific notation and engineering notation
- Laws of indices: positive /negative values, multiplication/division, fractional values, index equals zero
- Logarithmic laws: multiply/divide
- solution of exponential equations using logarithms, substitution and solution of relevant formulae involving exponents or logarithms
- Graphs of exponential functions,  $10^x$  and  $e^x$  and the inverses  $\log_{10}(x)$  and  $\log_e(x)$  functions on log-linear graphs
- Convert numbers into scientific and engineering notation using the laws of indices
- Manipulate and simplify arithmetic and algebraic expressions using the laws of indices and logarithms
- Express logarithms as indices.
- Perform logarithmic operations.
- Determine logarithms and antilogarithms to base 10, using a scientific calculator.
- Determine logarithms and antilogarithms to base e, using a scientific calculator.

- Convert logarithmic values from base 10 to base e and vice versa.
- Sketch given functions on log-linear graphs
- T4 Estimations, errors and approximations
  - Errors in measurement
  - Maximum probable error
  - Show awareness of errors in measurement and of giving results in appropriate number of significant figures
  - Use estimations and approximations to check the reasonableness of results.
- T5 Plane figures – triangles and basic trigonometry
  - Angles in a triangle
  - Isosceles and equilateral triangles
  - Congruent triangles
  - Similar triangles
  - Pythagoras' theorem
  - Area of triangles
  - Basic trigonometry functions
  - Degrees, radians
  - The ratios: sin, cos, tan, cosec, sec, cot.
  - Inverse trig functions
  - Sine and cosine rules
- T6 Plane figures - quadrilaterals and circles
  - Types and properties of quadrilaterals
  - Areas and perimeters of regular quadrilaterals
  - Lengths of arcs
  - Angles in a circle - degrees
  - Angles in a circle - radians
  - Lengths of chord segments
  - Tangents to circles
  - Circumference and area of circles
  - Names and characteristics of common polygons
- T7 Graphs of Trigonometric functions
  - Graph trigonometric functions and solve trigonometric equations.
  - Simplify trigonometric expressions using trigonometric identities
  - Convert angular measure in degrees to radians and vice versa

- ↵ Graph trigonometric functions including graphs of  $y = \sin x$  and  $y = \cos x$
- ↵ Using vocational applications of current or voltage as a function of time, consider changes in amplitude, consider changes in frequency.
- ↵ Examine relationships of frequency, period and angular velocity.
- ↵ Sketch graphs of the form  $f(t) = a \sin \phi t$  and  $f(t) = a \cos \phi t$ , where  $a$  is the peak voltage or current, and  $\phi$  is the angular velocity
- ↵ Solve graphically equations of the form  $f(t) = a \sin \phi t$  and  $f(t) = a \cos \phi t$

#### T8 Graphs of linear functions

- ↵ The number plane
- ↵ Gradient and x and y intercepts of a straight line
- ↵ Equation of a straight line length and mid-point of a straight line segment
- ↵ Function notation

#### T9 Simultaneous equations

- ↵ Graphical solutions
- ↵ Substitution
- ↵ Elimination
- ↵ Solve 2 linear simultaneous equations both algebraically and graphically.

#### T10 Matrices

- ↵ Perform the basic operations on matrices up to  $3 \times 3$
- ↵ Manipulate matrix equations and expressions
- ↵ Recognise inverse and identity matrices up to  $3 \times 3$  and use to solve systems of linear equations.
- ↵ Find determinants up to  $3 \times 3$  and use to solve systems of linear equations.
- ↵ Solve problems involving more than two simultaneous equations.
- ↵ State the limitations of graphical methods of solution.
- ↵ Distinguish between a matrix and an array.
- ↵ Describe the null, diagonal and unit matrix
- ↵ Describe and identify a singular/non-singular matrix

#### T11 Quadratic functions

- ↵ Graphs of quadratic functions represented by parabolas and the significance of the leading coefficient.
- ↵ Graph quadratic functions and solve quadratic equations.
- ↵ Sketch and interpret the graphs of quadratic functions showing the significance of the leading coefficient and the zeros
- ↵ Solve quadratic equations by factoring or using quadratic formula

- Solve simultaneously linear and quadratic equations algebraically and geometrically
- Interpret verbally formulated problems involving quadratic and linear equations and solve.

#### T12 Exponential and logarithmic functions

- Transform non-linear functions (including exponential) to linear forms and plot data.
- Draw curves of best fit, interpolate data and estimate constants in suggested relationships.
- Graph exponential and logarithmic functions and solve exponential and logarithmic equations.
- Sketch the graphs of simple exponential and logarithmic functions showing behaviour for large and small values

#### T13 Vectors and Phasors

- The vector as an expression of magnitude and direction
- The vector sum of x and y values in terms of magnitude and direction
- Rectangular components of vectors in the form  $x = r \cos \theta$  and  $y = r \sin \theta$
- Rectangular-polar and polar-rectangular conversion
- Vector addition and subtraction
- Express rectangular components of vectors in the form  $x = r \cos \theta$  and  $y = r \sin \theta$

#### T14 Complex numbers

- Definitions and notation of complex numbers
- Complex numbers as vectors on an Argand diagram
- laws of complex numbers and apply the laws in suitable calculations.
- Plot complex numbers on the Argand plane.
- Express vectors as complex numbers and perform suitable calculations.
- Calculate the conjugate of a complex number.
- Using a calculator for rectangular-polar and polar-rectangular conversions.

ME 106	Electrical Circuits
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This unit covers determining correct operation of single source d.c. series, parallel and series-parallel circuits and providing solutions as they apply to various electrotechnology work functions. It encompasses working safely, problem solving procedures, including the use of voltage, current and resistance measuring devices, providing solutions derived from measurements and calculations to predictable problems in single and multiple path circuits.

Evidence shall show an understanding of electrical fundamentals and direct current multiple path circuits to an extent indicated by the following aspects:

#### T1 Basic electrical concepts encompassing:

- ↯ electrotechnology industry
- ↯ static and current electricity
- ↯ production of electricity by renewable and non renewable energy sources
- ↯ transportation of electricity from the source to the load via the transmission and distribution systems
- ↯ utilisation of electricity by the various loads
- ↯ basic calculations involving quantity of electricity, velocity and speed with relationship to the generation and transportation of electricity.

#### T2 Basic electrical circuit encompassing:

- ↯ symbols used to represent an electrical energy source, a load, a switch and a circuit protection device in a circuit diagram
- ↯ purpose of each component in the circuit
- ↯ effects of an open-circuit, a closed-circuit and a short-circuit
- ↯ multiple and sub-multiple units

#### T3 Ohm's Law encompassing:

- ↯ basic d.c. single path circuit.
- ↯ voltage and currents levels in a basic d.c. single path circuit.
- ↯ effects of an open-circuit, a closed-circuit and a short-circuit on a basic d.c. single path relationship between voltage and current from measured values in a simple circuit
- ↯ determining voltage, current and resistance in a circuit given any two of these quantities
- ↯ graphical relationships of voltage, current and resistance
- ↯ relationship between voltage, current and resistance

#### T4 Electrical power encompassing:

- ↯ relationship between force, power, work and energy
- ↯ power dissipated in circuit from voltage, current and resistance values
- ↯ power ratings of devices
- ↯ measurement electrical power in a d.c. circuit
- ↯ effects of power rating of various resistors

#### T5 Effects of electrical current encompassing:

- ↯ physiological effects of current and the fundamental principles (listed in AS/NZS 3000) for protection against the this effect
- ↯ basic principles by which electric current can result in the production of heat; the production of magnetic fields; a chemical reaction

- typical uses of the effects of current
- mechanisms by which metals corrode
- fundamental principles (listed in AS/NZS3000) for protection against the damaging effects of current

T6 EMF sources energy sources and conversion electrical energy encompassing:

- basic principles of producing a emf from the interaction of a moving conductor in a magnetic field.
- basic principles of producing an emf from the heating of one junction of a thermocouple.
- basic principles of producing a emf by the application of sun light falling on the surface of photovoltaic cells
- basic principles of generating a emf when a mechanical force is applied to a crystal (piezo electric effect)
- principles of producing a electrical current from primary, secondary and fuel cells
- input, output, efficiency or losses of electrical systems and machines
- effect of losses in electrical wiring and machines
- principle of conservation of energy

T7 Resistors encompassing:

- features of fixed and variable resistor types and typical applications
- identification of fixed and variable resistors
- various types of fixed resistors used in the Electro technology Industry. e.g. wire-wound, carbon film, tapped resistors.
- various types of variable resistors used in the Electro technology Industry e.g. adjustable resistors: potentiometer and rheostat; light dependent resistor (LDR); voltage dependent resistor (VDR) and temperature dependent resistor (NTC, PTC).
- characteristics of temperature, voltage and light dependent resistors and typical applications of each power ratings of a resistor.
- power loss (heat) occurring in a conductor.
- resistance of a colour coded resistor from colour code tables and confirm the value by measurement.
- measurement of resistance of a range of variable' resistors under varying conditions of light, voltage, temperature conditions.
- specifying a resistor for a particular application.

T8 Series circuits encompassing:

- circuit diagram of a single-source d.c. 'series' circuit.
- Identification of the major components of a 'series' circuit: power supply; loads; connecting leads and switch
- applications where 'series' circuits are used in the Electro technology industry.
- characteristics of a 'series' circuit - connection of loads, current path, voltage drops, power dissipation and affects of an open circuit in a 'series' circuit.
- the voltage, current, resistances or power dissipated from measured or given values of any two of these quantities
- relationship between voltage drops and resistance in a simple voltage divider network.
- setting up and connecting a single-source series dc circuit

→ measurement of resistance, voltage and current values in a single source series circuit effect of an open-circuit on a series connected circuit

#### T9 Parallel circuits encompassing:

- schematic diagram of a single-source d.c. 'parallel' circuit.
- major components of a 'parallel' circuit (power supply, loads, connecting leads and applications where 'parallel' circuits are used in the Electrotechnology industry.
- characteristics of a 'parallel' circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a 'parallel' circuit).
- relationship between currents entering a junction and currents leaving a junction
- relationship between branch currents and resistances in a two branch current divider network.
- calculation of the total resistance of a 'parallel' circuit.
- calculation of the total current of a 'parallel' circuit.
- Calculation of the total voltage and the individual voltage drops of a 'parallel' circuit.
- setting up and connecting a single-source d.c. parallel circuit
- resistance, voltage and current measurements in a single-source parallel circuit
- voltage, current, resistance or power dissipated from measured values of any of these quantities
- output current and voltage levels of connecting cells in parallel.

#### T10 Series/parallel circuits encompassing:

- schematic diagram of a single-source d.c. 'series/parallel' circuit.
- major components of a 'series/parallel' circuit (power supply, loads, connecting leads and switch)
- applications where 'series/parallel' circuits are used in the Electrotechnology industry.
- characteristics of a 'series/parallel' circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a 'series/parallel' circuit).
- relationship between voltages, currents and resistances in a bridge network.
- calculation of the total resistance of a 'series/parallel' circuit.
- calculation of the total current of a 'series/parallel' circuit.
- calculation of the total voltage and the individual voltage drops of a 'series/parallel' circuit.
- setting up and connecting a single-source d.c. series/ parallel circuit
- resistance, voltage and current measurements in a single-source d.c. series / parallel circuit
- the voltage, current, resistances or power dissipated from measured values of any two of these quantities

#### T11 Factors affecting resistance encompassing:

- four factors that affect the resistance of a conductor (type of material, length, cross-sectional area and temperature)
- affect the change in the type of material (resistivity) has on the resistance of a conductor.
- affect the change in 'length' has on the resistance of a conductor.
- affect the change in 'cross-sectional area' has on the resistance of a conductor.

effects of resistance on the current-carrying capacity and voltage drop in cables.

calculation of the resistance of a conductor from factors such as conductor length, cross-sectional area, resistivity and changes in temperature

using digital and analogue ohmmeter to measure the change in resistance of different types of conductive materials (copper, aluminium, nichrome, tungsten) when those materials undergo a change in type of material length, cross-sectional area and temperature.

#### T12 Effects of meters in a circuit encompassing:

selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application.

measuring resistance using direct, volt-ammeter and bridge methods.

instruments used in the field to measure voltage, current, resistance and insulation resistance and the typical circumstances in which they are used.

hazards involved in using electrical instruments and the safety control measures that should be taken.

operating characteristics of analogue and digital meters.

correct techniques to read the scale of an analogue meters and how to reduce the 'parallax' error.

types of voltmeters used in the Electrotechnology industry – bench type, clamp meter, Multimeter, etc.

purpose and characteristics (internal resistance, range, loading effect and accuracy) of a voltmeter.

types of voltage indicator testers. e.g. LED, neon, solenoid, volt-stick, series tester, etc. and explain the purpose of each voltage indicator tester.

operation of various voltage indicator testers.

advantages and disadvantages of each voltage indicator tester.

various types of ammeters used in the Electrotechnology industry – bench, clamp meter, multimeter, etc.

purpose of an ammeter and the correct connection (series) of an ammeter into a circuit.

reasons why the internal resistance of an ammeter must be extremely low and the dangers and consequences of connecting an ammeter in parallel and/or wrong polarity.

selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application

connecting an analogue/digital voltmeter into a circuit ensuring the polarities are correct and take various voltage readings.

loading effect of various voltmeters when measuring voltage across various loads.

using voltage indicator testers to detect the presence of various voltage levels.

connecting analogue/digital ammeter into a circuit ensuring the polarities are correct and take various current readings.

#### T13 Resistance measurement encompassing:

Identification of instruments used in the field to measure resistance (including insulation resistance) and the typical circumstances in which they are used.

the purpose of an Insulation Resistance (IR) Tester.

the parts and functions of various analogue and digital IR Tester (selector range switch, zero ohms adjustment, battery check function, scale and connecting leads).

reasons why the supply must be isolated prior to using the IR tester.

where and why the continuity test would be used in an electrical installation.



- where and why the insulation resistance test would be used in an electrical installation.
- the voltage ranges of an IR tester and where each range may be used. e.g. 250 V d.c, 500 V d.c and 1000 V d.c
- AS/NZS3000 Wiring Rules requirements – continuity test and insulation resistance (IR) test.
- purpose of regular IR tester calibration.
- the correct methods of storing the IR tester after use
- carry out a calibration check on a IR Tester
- measurement of low values of resistance using an IR tester continuity functions.
- measurement of high values of resistance using an IR tester insulation resistance function.
- volt-ammeter (short shunt and long shunt) methods of measuring resistance.
- calculation of resistance values using voltmeter and ammeter reading (long and short shunt connections)
- measurement of resistance using volt-ammeter methods

#### T14 Capacitors and Capacitance encompassing:

- basic construction of standard capacitor, highlighting the: plates, dielectric and connecting leads
- different types of dielectric material and each dielectric's relative permittivity.
- identification of various types of capacitors commonly used in the Electrotechnology industry (fixed value capacitors -stacked plate, rolled, electrolytic, ceramic, mica and Variable value capacitors – tuning and trimmer)
- circuit symbol of various types of capacitors: standard; variable, trimmer and polarised
- terms: Capacitance (C), Electric charge (Q) and Energy (W)
- unit of: Capacitance (Farad), Electric charge (Coulomb) and Energy (Joule)
- factors affecting capacitance (the effective area of the plates, the distance between the plates and the type of dielectric) and explain how these factors are present in all circuits to some extent.
- how a capacitor is charged in a d.c. circuit.
- behaviour of a series d.c. circuit containing resistance and capacitance components. - charge and discharge curves

the term 'Time Constant' and its relationship to the charging and discharging of a capacitor.

- calculation of quantities from given information: Capacitance ( $Q = VC$ ); Energy ( $W = \frac{1}{2}CV^2$ ); Voltage ( $V = Q/C$ )
- calculation one time constant as well as the time taken to fully charge and discharge a given capacitor. ( $\tau = RC$ )
- connection of a series d.c. circuit containing capacitance and resistor to determine the time constant of the circuit

#### T15 Capacitors in Series and Parallel encompassing:

- hazards involved in working with capacitance effects and the safety control measures that should be taken.

- safe handling and the correct methods of discharging various size capacitors
- dangers of a charged capacitor and the consequences of discharging a capacitor through a person
- factors which determine the capacitance of a capacitor and explain how these factors are present in all circuits to some extent.
- effects of capacitors connected in parallel by calculating their equivalent capacitance.

This unit covers the law of physics and how they apply to solving electrotechnology related problems. It encompasses working safely, knowledge of measurements of physical phenomena, linear and angular motion, harmonic motion, wave theory, optics, acoustics and heat capacity and transfer, use of measurement techniques, solving physics related problems and documenting justification for such solutions.

ME 103	Engineering Mechanics (EE204)
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### **KS01-EE082A Electrotechnology engineering physics**

Evidence shall show an understanding of electro engineering physics to an extent indicated by the following aspects:

#### **T1 Measurement encompassing**

- SI units in measurement of physical phenomena
- Uncertainty and tolerance

#### **T2 Linear motion**

#### **T3 Angular motion**

#### **T4 Simple harmonic motion and vibration**

#### **T5 Wave theory**

- Interference

- Diffraction

#### **T6 Electromagnetic waves and propagation**

#### **T7 Optics**

- Mirrors and lenses

- Optical fibre

#### **T8 Acoustics and ultrasonics**

#### **T9 Heat capacity and heat transfer**

- Fluid power

## EE 617 Building Electrical and Mechanical System Part 1 (EE309)

This unit covers evaluating energy used in buildings and developing and documenting strategies/methods to effectively reduce energy use without compromising occupancy standards. It encompasses working safely, setting up and conducting evaluation measurements and evaluating energy use from measured parameters.

### T1 Climate and thermal comfort encompassing:

- ↯ characteristics of the different Australian climatic types.
- ↯ use of climatic data in published and electronic forms to extract the quantities relevant to energy efficient design.
- ↯ relationship between climate and comfort using bioclimatic or psychrometric charts.
- ↯ calculation of heating or cooling degree days or degree hours for various locations.
- ↯ calculation of thermal neutrality for a given location.

### T2 Solar geometry and radiation encompassing:

- ↯ definition of the terms: declination, hour angle, zenith angle, azimuth and altitude angles, the equation of time.
- ↯ conversion of solar time to local time and vice versa.
- ↯ position of the sun and the length of shadows with the aid of algorithms, tables, sun charts or computer software.
- ↯ daily irradiation incident on a wall, window or roof of a given tilt and orientation.
- ↯ relative summer and winter irradiation of windows facing the cardinal orientations.

### T3 Heat transfer encompassing:

- ↯ thermal processes of conduction, convection and radiation apply to the transfer of heat in buildings.
- ↯ calculation of the summer and winter U-values of building elements using tables and software.
- ↯ calculation of the infiltration heat transfer in a building.

### T4 Glazing Systems encompassing:

↯ different types of glazing systems and their characteristics.

↯ different types of shading devices and the window orientations for which they are most appropriate.

↯ solar heat gain for different glazing types and angles of incidence

↯ calculation of the average daily irradiation of a window partly shaded by eaves, using computer software.

↯ calculation of the average daily heat gain through a window partly shaded by eaves.

#### T5 Insulation encompassing:

↯ different types of insulation and where they are used.

↯ how different types of insulation are installed in roofs, walls and floors

.

↯ determination of the minimum R-values of roof insulation for different locations using Australian Standard AS2627 or similar standards.

#### T6 Thermal mass encompassing:

↯ advantages and disadvantages of using substantial thermal mass in different climate types and for different heating and cooling regimes.

↯ where thermal mass can be located in a building.

↯ explain what is meant by the following terms: time lag, decrement factor, admittance, response factor.

#### T7 Comfort control strategies encompassing:

↯ interpretation of the usefulness of a design strategy with the aid of a psychrometric chart showing control potential zones for a particular location.

↯ selection of the most useful comfort control strategies for Australian climatic regions.

T8 Energy efficiency in buildings encompassing:

- └─ determination of the direction of the following: both true and magnetic, north winter and summer sunrise, winter and summer sunset.
- └─ solar access in summer and winter to various possible house locations on a site and room locations within the house.
- └─ how vegetation can be used to both funnel and deflect wind.
- └─ using cross ventilation as a cooling strategy.

T9 Thermal performance of a building encompassing:

- └─ heating requirements of a building using the heating degree day or hour method.
- └─ dynamic performance predicted by a computer simulation program such as NatHERS or BERS.

T10 Integration of active solar systems encompassing:

- └─ active solar system types available which can provide hot water, space heating and cooling.
- └─ the best location on the roof, and the optimum tilt and orientation of the collector panels.
- └─ function of the main components of an air or water-based solar space heating system.
- └─ schematic of the fluid circuit of an air or water-based space heating system.
- └─ main solar cooling system types.

T11 Energy rating schemes encompassing:

- └─ differences in approach used by house energy rating schemes in Australia.
- └─ energy performance of a number of houses using a computer simulation program such as NatHERS or BERS.

– other methods to reduce energy consumption within and outside a building including appliance efficiency, human behaviour changes, building management strategies and transportation minimisation.

– additional cost of energy efficiency measures and cost savings using life cycle cost or simple pay back methods according to Aust. Standard AS3595 and AS4536.

T12 Sustainable and safe building materials encompassing:

– common building materials and their embodied energy content.

– environmental impact of the production of various building materials.

– problems associated with the use or disposal of building materials.

This unit covers fixing, securing and mounting techniques as apply in the various electrotechnology work functions. It encompasses the safe use of hand and portable power tools, safe lifting techniques, safe use of ladders and elevated platforms and the selection and safe application of fixing devices and supporting accessories/equipment.

ME 105	Electrical Principle (EE102)
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### KS01-EE105A Fixing and support devices/techniques

Evidence shall show an understanding of accessories and support and fixing device and methods and their use to an extent indicated by the following aspects:

T1. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to hollow walls encompassing:

– types and safe application of devices for hollow wall fixing and support

– methods/techniques used to fix/support to wood, hollow wall, masonry blocks, plasterboard, panelling

– types and safe application of fixing devices used in the electrotechnology industry for wood and hollow wall structures (wood screws, coach bolts, self-tappers, self drilling, metal thread, hollow wall anchors, behind plaster brackets, stud brackets, plasterboard devices, toggle devices)

– types of tools used for hollow wall fixing and supporting.

– using various fixing methods to fix/support to hollow walls.

T2. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to solid walls encompassing:

– types and safe application of devices used for solid wall fixing and support

– methods/techniques used in to fix to masonry and concrete structures

– fixing devices used in the electrotechnology industry for solid wall structures (wall-plugs, expanding concrete fixing devices, gas powered fixing tools, powder actuated fixing tools, loxins, dynabolts, chemical devices)

– regulatory requirements for use of powder fixing tools.

– hand and power tools used in fixing and supporting accessories

– using various fixing methods to fix/support to solid walls

T3. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to metal fixing encompassing:

– accessories that may be fixed to metal (saddle clips, conduits, brackets, switches)

– techniques for fixing to metal

– fixing devices: coach bolts, self-tappers, metal thread bolts, hollow wall anchors, rivets

– fixing tools - spanners, screwdrivers, power screw drivers, pop riveters, files, reamers

– OH&S issues related to drilling, cutting, eye protection, metal filings, swarf, noise

– Using power drills, drill bits, change drill speeds.

– Install a fixing device and accessory capable of supporting up to 20 kg on the metal plate.

T4. Securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories using fixing adhesives and tapes encompassing:

– types and safe application of using adhesives and tapes as fixing devices (load limits of different commercial products)

– accessories that may be fixed using adhesives and tapes

– techniques for the application of adhesives and tapes

– tools used to apply and cut adhesives and tapes

– hazards and safety measures when working with adhesives and chemical fixing devices (fumes, cutting, eye protection, physical contact, hand protection, ingestion)

This unit covers the application of advanced computational processes to solve energy sector engineering problems. It encompasses working safely, applying problem solving techniques, using a range of advanced mathematical processes, providing solutions to electrical/electronics engineering problems and justifying such solutions.

Note. Typical engineering problems are those encountered in meeting requirements in a design brief, meeting performance requirements and compliance standards, revising systems operating parameters and dealing with system malfunctions

[Maths 403 Engineering-Mathematics \(EE302\)](#)

[Maths 302 Elementary-Linear-Algebra \(EE302\)](#)

[Maths 501 Linear Algebra-c-1 \(EE302\)](#)

### **KS01-EE127A Advanced Engineering Maths**

Evidence shall show an understanding of advanced engineering maths to an extent indicated by the following aspects:

T1 Differential Calculus encompassing:

- basic concepts of differential calculus, limited to definition of the derivative of a function as the slope of a tangent line (the gradient of a curve); limits; basic examples from 1st principles; Notation and Results of derivative of  $k.f(ax + b)$  where  $f(x)=x$  to the power of  $n$ ,  $\sin x$ ,  $\cos x$ ,  $\tan x$ ,  $e$  to the power of  $x$ ,  $\ln x$ .
- rules - derivative of sum and difference; product rule; quotient rule; chain rule (function of a function), limited to two rules for any given function, the 2nd derivative.
- applications - equations of tangents and normals; stationary points; turning points; and curve sketching; rates of change; rectilinear motion
- verbally formulated problems involving related rates and maxima: minima

T2 Integral Calculus encompassing:

- integration as the inverse operation to differentiation - results of the integral of  $k.f(ax + b)$  where  $f(x) = x$  to the power of  $n$ ,  $\sin x$ ,  $\cos x$ ,  $\sec^2 x$ ,  $e$  to the power of  $x$ , method of substitution, the definite integral.
- applications - areas between curves; rectilinear motion including displacement from acceleration and distance travelled; voltage and current relationship in capacitors and inductors and the like.

T3 Linear Algebra encompassing:

- matrices and inverse matrices;
- linear mapping,
- determinants,
- solution of linear equations.

T4 Vectors encompassing:

- geometrical representation,
- addition and scalar multiplication,
- dot and cross products,
- equations of lines and planes.



T5 Variables encompassing:

- ¬<sub>λ</sub> graphs, level curves and surfaces
- ¬<sub>λ</sub> partial derivatives; chain rule; directional derivative;
- ¬<sub>λ</sub> maxima and minima.

T6 Sequences and Series encompassing:

- ¬<sub>λ</sub> algebraic and Fourier series, convergence; Taylor's Theorem
- ¬<sub>λ</sub> power series manipulation.

T7 Differential Equations encompassing:

- ¬<sub>λ</sub> first order and separable linear equations
- ¬<sub>λ</sub> second order linear equations.
- ¬<sub>λ</sub> partial differential equations.
- ¬<sub>λ</sub> numerical Techniques.

T8 Number encompassing:

- ¬<sub>λ</sub> integer, irrational and complex numbers.
- ¬<sub>λ</sub> number systems.
- ¬<sub>λ</sub> arithmetic operations.
- ¬<sub>λ</sub> accuracy and stability.

T9 Statistics encompassing:

- ¬<sub>λ</sub> assembly, representation and analysis of data.
- ¬<sub>λ</sub> fitting distributions to data.
- ¬<sub>λ</sub> non-parametric statistics.
- ¬<sub>λ</sub> tests of significance for means, variances and extreme values.
- ¬<sub>λ</sub> correlation

### Maths 301 Introductory Finite Difference Methods-for-pdes

The residue Theorem

Fourier Transform

Integral theorem of complex analysis with applications to the evaluation of real integral

Integral theorems – The green Theorem

Cauchy's integral theorem

Cauchy's residue theorem

EE624	Process Control System (EE116)
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This unit covers solving problems in industrial control systems. The unit encompasses safe working practices, interpreting process and circuit diagrams, applying knowledge of industry controls to problem solving techniques, safety and functional testing and completing the necessary documentation.

Note.

Typical basic industrial control system problems are those encountered in meeting performance requirements and compliance standards, revising control operating parameters and dealing with control malfunctions.

#### **KS01-EI120A**

#### **Industrial control systems**

Evidence shall show an understanding of industrial control systems to an extent indicated by the following aspects:

Control amplifiers encompassing:

- ↯ Introduction
- ↯ Amplifier Operation
- ↯ Operational Amplifiers
- ↯ Operational Amplifier Configurations

Industrial transducers encompassing:

- ↯ Introduction
- ↯ SI Units
- ↯ Forms of Energy
- ↯ Transducer Terminology
- ↯ Temperature Measurement
- ↯ Force Measurement
- ↯ Speed Measurement

SKILLS AND KNOWLEDGE

↵ Positional Measurement

Industrial final control elements encompassing:

↵ Introduction

↵ Electromagnetic Devices

↵ Valves

↵ Solid State Switching Devices

Industrial control systems encompassing:

↵ Automatic Control

↵ Open Loop Control

↵ Closed Loop Control

↵ Control System Terminology

↵ Control System Evaluation

↵ Two Position Control

↵ Proportional Control (P)

↵ Proportional + Integral Control (P+I)

↵ Proportional + Derivative Control (P+D)

↵ Proportional + Integral + Derivative Control (P+I+D)

Industrial control loops and control signals encompassing:

↵ Introduction

↵ Control Loops

↵ Converters (D to A and A to D)

↵ Multiplexing

Mgt 501+ Mgt 503	Basic Management+ (EE309) Production & Operation Management
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## Part 1 Project Management

This unit covers the management of large mechanical projects involving design, modifications, installation, and/or maintenance of systems and equipment. The unit encompasses management of safety, budget variation, personnel, resources, critical path timelines and completion documentation.

## KS01-EG169A Project management

Evidence shall show an understanding of managing mechanical projects to an extent indicated by the following aspects:

T1 Defining project parameters encompassing:

- ¬ Project scope
- ¬ Project stakeholders and clients
- ¬ Project phases and the relationship between phases

T2 Time management concepts and standard practices

T3 Financial management encompassing:

- ¬ Financial management concepts
- ¬ Standard practices for managing project finances
- ¬ Project budgets
- ¬ Costs
- ¬ variations and estimations
- ¬ Invoicing against project phases/deliverables
- ¬ Acquittals and the like

T4 Quality management concepts and practices

T5 Human Resource management concepts and practices within a project

T6 Communication management concepts and practices within a project

T7 Risk management and contingencies encompassing:

- ¬ Risk management concepts
- ¬ Internal risks
- ¬ External risks
- ¬ Contingencies
- ¬ Standard practices for managing risk within a project
- ¬ Risk minimisation
- ¬ Risk removal; and the like

T8 Procurement management concepts and practices

T9 Physical Resource management concepts and practices relating to equipment, technology, information and facilities

T10 Contracts encompassing:

- ¬ Contract format

- Contract content
- Interpreting contract clauses
- Legal obligations of contract parties
- Working to contract specifications
- Documentation accompanying contracts such as schedules and the like

T11 Performance assessment and continuous improvement

T12 Engineering ethics principles

T13 Customer/Client relations encompassing:

Interpersonal skills that enhance customer/client

- Dispute resolution
- Customer/client relations strategies

T14 Mechanical industry sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing
- Typical approaches to planning and management
- Successful planning techniques
- Best practice management methods and styles

## Part 2 Project Planning

This unit covers development and documentation of large electrical project proposals, milestones and completions. The unit encompasses, establishing budgets, critical path analysis, development of workflow strategies, documenting, presenting and negotiating budgets and timelines.

### **KS01-EG170A Project planning**

Evidence shall show an understanding of planning projects and analyzing progress to an extent indicated by the following aspects:

T1 Project planning encompassing:

T2 Purpose of project planning Evidence shall show an understanding of managing electrical projects to an extent indicated by the following aspects:

T3 Defining project parameters encompassing:

- Project scope
- Project stakeholders and clients
- Project phases and the relationship between phases
- Time requirements and limitations
- Resource requirements and limitations

→ Quality requirements and limitations

T4 Time management concepts and standard practices

T5 Financial management encompassing:

→ Invoicing against project phases/deliverables

→ Acquittals and the like

T6 Quality management concepts and practices

T7 Human Resource management concepts and practices within a project

T8 Communication management concepts and practices within a project

T9 Risk management and contingencies encompassing:

→ Risk management concepts

→ Internal risks

→ External risks

→ Contingencies

→ Standard practices for managing risk within a project

→ Risk minimisation

→ Risk removal; and the like

T10 Procurement management concepts and practices

T11 Physical Resource management concepts and practices relating to equipment, technology, information and facilities

T12 Contracts encompassing:

→ Contract format

→ Contract content

→ Interpreting contract clauses

→ Legal obligations of contract parties

→ Working to contract specifications

→ Documentation accompanying contracts such as schedules and the like

T13 Performance assessment and continuous improvement

T14 Engineering ethics principles

T15 Customer/Client relations encompassing:

- ¬ Importance of customer/client relations
- ¬ Interpersonal skills that enhance customer/client
- ¬ Dispute resolution
- ¬ Customer/client relations strategies

T16 Mechanical industry sector customs and practice encompassing:

- ¬ Equipment procurement, cost/benefit analysis and performance testing

## **REQUIRED SKILLS AND KNOWLEDGE**

- ¬ Typical approaches to planning and management
- ¬ Successful planning techniques
- ¬ Best practice management methods and styles
- ¬ Documents needed to plan a project
- ¬ Factors influencing sequence and restraints of project activities
- ¬ Critical path analysis covering graphical representation methods and methods of representing time/rates

T17 Critical path and project analysis encompassing:

- ¬ Purpose of critical path analysis
- ¬ Essential data
- ¬ Relational sequence of work activities
- ¬ Graphical representation methods
- ¬ Methods of representing time/rates
- ¬ Monitoring methods

T18 Mechanical industry sector customs and practice encompassing:

- ¬ Equipment procurement, cost/benefit analysis and performance testing
- ¬ Typical approaches to planning and management
- ¬ Successful planning techniques
- ¬ Best practice management methods and styles

**Mgt 505 Quality Management and Manufacturing Engineering**

What Is Quality? Customer's Perspective, Dimensions of Quality: Manufactured Products, Dimensions of Quality: Services, What Is Quality: Producer's Perspective, Meaning of Quality, Deming Wheel: PDCA Cycle, Quality Tools, Flow Chart, Cause-and-Effect Diagram, Cause-and-Effect Matrix, Check Sheets and Histograms, Pareto Analysis, TQM and QMS, Focus of Quality Management— Customers, Quality Management in the Supply Chain, Measuring Customer Satisfaction, Role of Employees in Quality Improvement, Quality Circles, Process (Quality) Improvement Teams, Quality in Services, Quality Attributes in Services, Breakthrough Strategy: DMAIC, Profitability, Cost of Quality, Prevention Costs, Appraisal Costs, Internal Failure Costs, External Failure Costs, Measuring and Reporting Quality Costs, Cost of Quality, Quality–Cost Relationship, Effect of Quality Management on Productivity, Measuring Product Yield and Productivity, Computing Product Cost per Unit, Computing Product Yield for Multistage Processes, Initial Batch Size For 100 Motors, Quality Productivity Ratio, ISO 9000, ISO 9000 Certification, Implications, and Registrars

#### ME 101 Applied Mathematics

-Constant acceleration, laws of motion, motion with constant acceleration, velocity-time graph, two dimensional motion, newton laws of motion, equilibrium, components of force, lever, fractional force, -Centre of gravity, conservation of momentum, energy power, circular motion, motion in vertical circle.

#### ME 102 Engineering Thermodynamics

-Thermodynamic system, thermodynamic properties, quality of the working substances, thermodynamic processes, ideal gas, gas equation during a change of state, thermodynamic process for gas, vanderwaal gas equation, entropy, properties of steam, thermodynamic of working fluids

-Gas problems, method of expansion/compression, first law of thermodynamics, throttling valve, second law of thermodynamics, third law of thermodynamics

#### ME 104 Machine Principle

Driving machine, transmission machine, driven machines, rotating machines, machine mountings, principle of balancing, static balancing, dynamic balancing, selection of lubricants, methods of application of lubricants, properties of lubricants, bearings, copper lead alloy, rolling element bearing, linear bearing, fretting, V-belt drives, belt tension adjustment, chain drives, gear drives, shaft coupling types, clutches, method of alignment, O-rings, machine condition monitoring methods, safety gears.

#### ME 107 Heat Transfer

Principle of internal combustion engine, heat transfer in engine, cylinder heat flux and temperature, heat transfer equation in engine, boiling of coolant, exhaust valve, engine stroke, fuel combustion, products of combustion, ignition circuit, fuel supply lines in engine, fuel pumps, fuel injectors, fuel injection pump, fuel injection timing, fuel governor, governor control system.

#### ME 201 Introduction to fluid mechanics

- Nature of fluids, fluid as continuum, properties of fluids, viscosity, surface tension, compressibility, fluid statistics, pressure, pressure variation in static fluid, pressure & heat, moment of pressure.
- U tube manometer, buoyancy, basics of fluid flow, velocity field, types of flows, steady flow, unsteady flow, laminar flow, Bernoulli equation, application of Bernoulli equation.
- Discharge coefficients of nozzle, venturimeter, orifice meter, flow nozzle, pittot tube, flow control throttling, varying pump speeds.



### ME 202 Introduction to Aerodynamics

- Definition and approaches of aerodynamics, centre of pressure and aerodynamic centre of air foil, airflow circulation, velocity potential, vortex flow, wind tunnel, finite wing theory , airfoil nomenclature
- Resultant force and moment acting on air foil, fundamental of inviscid compressible flow, one dimensional flow equation, quasi one dimensional flow, nozzle and diffuser flow,.
- Fundamental of viscous flow, wind tunnel, a few basic experiments.

### ME 203 Control Engineering

### ME 304 Non Linearity in Control System

- Feedback control structure, Laplace transform and transfer functions, state-space representation , interconnecting models in MATLAB, single pole transfer functions.
- Step response, two complex poles, effect of a zero, 3 pole transfer function, frequency response and their plotting, Bode diagram.
- Basic concept of feedback control, the closed loops, stability, steady state error, step response, stability.

### ME 204 Engineering Fluid Mechanics

### ME 301 Fluid Dynamics

Fluid particles, Body forces, compressible flow, incompressible flow, turbulent flow, inviscid flow, boundary layer approximation.

### ME 205 Manufacturing Processes and Materials

- Non conventional machining processes, tool wear , tool characteristics, methods of monitoring tool wear, pneumatic method, acceptance sampling.
- Cutting test, electro-discharge machining, hard and soft automation, surface properties and applications, bored holes, integrated manufacturing systems, manufacturing machinery configuration.

### ME 206 Introduction to turbo-machinery

- Simple turbine, meridional view, one dimension motion, velocity triangles in turbo machinery, simple analysis of wind turbines.
- Force on wind turbine blades, aerofoil operation & testing , wind turbine design, turbine power control, axial flow machines, radial and centrifugal flow machines, hydraulic turbines.
- Common design choices, turbo machine & system efficiency & reaction, dimensionless parameters for turbo machinery, coefficients for hydraulic turbines, specific speed for turbines, hydraulic turbines, pelton wheel, analysis approach.

### ME 207 Chemical Thermodynamics

Free energy diagram, variation of motor gibbs, liquid-liquid equilibrium, phase behaviour, condition for equilibrium, mole fraction of ethanol, temperature vs solid water + solid ethanol properties, liquid phases.

### ME 208 Hydro Carbons

- Viscosity , Benzenes as a model compound, organic compounds, acoustic impedance, organic liquid , electrical properties of organic liquids, optical properties of organic liquids, physical properties of crude oil, densities & viscosities of crudes, viscosities of blended crude oils, coefficient of thermal expansion of crude oils.
- Acoustic impedance of crude oil, densities and viscosities, vehicle fuel pump, refinements of RVP. Thermal conductivity, physical properties of kerosenes, viscosity of kerosenes, kerosene as diluent for lubricating oil, diesel fuels, electrical conductivity of diesel fuel, heavy fuel oils, alcohol containing fuels, methanol, methanol-gasoline blends, ethanol-gasoline blends, bio-diesel fuels.

### ME 209 Introduction to polymer science/ technology

Materials and process resources, manufacturing, heat shrinkable tubes, compounding mixing, polymer processing tube extrusion, crosslink , electron accelerator, tube expansion , polymers, elastomers, properties of polymers, composition of synthetic polymers, categories of polymers, basic molecule, synthetic polymers, properties of synthetic polymers, amorphous & semi crystalline, phase transition, polymer properties, crosslinking and elastic memory, fillers, additives for polymers, elastomers, overall product performance, test methods & specification, energy materials, anti tracking materials, material test method, tracking & erosion resistance test, mechanism of iron oxide, base polymer tracking resistance, track prone polymer, stress control, electrical switching behaviour.

#### ME 234 Wind Turbines

- Sitting of wind turbines, planning constraints, theory of wind energy ,conservation of momentum, wind turbine theory.
- Wind energy , environment, conversation energy, rated and actual power output, wind turbine types, components, anemometer.
- Speed measurement, energy & power in wind, software package

#### ME 305 Corrosion Prevention

Chemical effect on material, examples of corrosion, galvanic corrosion, intrinsic chemistry, coating, corrosion protection methods, polymer tracking resistance, corrosion in passivation materials, types of corrosion, stress corrosion cracking, carbon steels, concentration cell corrosion.

#### ME 302 Automation Robotics

- Optimization of production line, organization diagram, description of assembly and characteristics features, mechanisation, involvement of conveyor
- Assembly process, basic assembly scheme, proposal for automation, feeding storage parts, feeder design operation, method of re-filling.
- Operation assembly cell design, flexible mechanised assembly cell, , assembly line operation, investment calculation example.

#### ME 303 Computer Aided Design & Manufacturing

CAD/CAM System, comparison between different CAD systems, internet based computer design system, complement of data, milling of cylindrical hole, pro-engineered manufactured parts, machine tool co-ordinate system, operation set up, machining sequence program, drilling hole program, simulation program, program to calculate total machining time, reverse engineering, rapid prototyping, basic process, accurate processing, diagram for rapid prototyping techniques, other kinds of reverse engineering, kinds of materials for rapid prototyping.

#### ME 306 Theory of waves in materials

Equilibrium process, Claudius inequality, basic wave phenomena, wave equation, characteristics of waves, elastic volume and shear waves, vector field of displacement, approximation, convection of a disturbance in a pipe , diffusion of a wave in a pipe.

#### ME 334 Air-conditioning & Refrigeration

- Refrigerant piping, evaporator, compressor, condenser, compressor-condenser circuit, tools
- Air-conditioning equipment, tubing, joining refrigeration piping
- Nitrogen circuit, system charging, electrical test instruments, control equipments, thermostat, compressor
- Control circuit equipment assembly, dual fuel furnace, humidification, comfort, ventilation duct, plenum system.
- Ventilation installation, ventilation fixtures, evaporator outlet temperature, assembly of units, capillary tube, installation of indoor / outdoor units.

EE308	Sustainability
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This unit covers developing strategies to address environmental and sustainability issues in the energy sector. It encompasses working safely, apply extensive knowledge of sustainable energy systems and components and their operating parameters, gathering and analysing data, applying problem solving techniques, developing and documenting alternatives solutions

#### KS01-EK132A

#### Environmental and Sustainability strategies

Evidence shall show an understanding of greenhouse reduction strategies to an extent indicated by the following aspects:

T1 Principles of sustainability encompassing:

- ↯ ways in which ecosystems moderate climate. ways in which ecosystems purify and store water.
- ↯ ways in which ecosystems recycle waste.

T2 Problems in a sustainable world encompassing:

- ↯ changes to Australian forest cover since white settlement, and the resulting loss of ecosystem and human benefits.
- ↯ changes to Australia's soils since white settlement, and the resulting loss of ecosystem and human benefits.
- ↯ changes to Australia's waterways since white settlement, and the resulting loss of ecosystem and human benefits.
- ↯ place of environmental accounting in quantifying Australia's environmental losses.
- ↯ limits to Australia's population carrying capacity.

T3 Sustainability principles encompassing:

- ↯ principles within sustainability including: environmental accounting and economies; full cost pricing; triple bottom line ethic; ecologically sustainable development; greenhouse gas abatement; energy efficiency; resource and water use efficiency; life cycle costing; renewable energy substitution, cleaner production; waste minimisation, reuse and recycling; ecological footprint.

T4 Addressing the problem of global warming encompassing:

- ↯ greenhouse gases and their sources and quantities that contribute to global warming.
- ↯ global warming impacts for Australia for 2030 and 2070 predicted by CSIRO modelling.
- ↯ requirements to achieve stable atmospheric concentrations of greenhouse gases.
- ↯ ecologically and economically sustainable methods for achieving these stable concentrations.

T5 Greenhouse gas emissions profile encompassing:

- ↯ goals and principles of the National Greenhouse Strategy
- ↯ what a greenhouse gas inventory is, why it is required, and the sectors to which it applies
- ↯ uses to which the National Greenhouse Gas Inventory can be applied.

T6 Understanding and communicating climate change and its impacts encompassing:

- ✎ the possible impact of climate change in Australia.
- ✎ techniques for improving the understanding of climate change
- ✎ techniques for communicating to and educating the general

public on greenhouse gas induced climate change.

T7 Partnerships for greenhouse action encompassing:

- ✎ actions achievable by each level of government to implement the NGS.
- ✎ methods by which the community activity can be engaged in the reduction of greenhouse gas emissions.
- ✎ initiatives that can be undertaken by the private sector to reduce greenhouse gas emissions.
- ✎ advantages of international partnerships.
- ✎ emissions trading system.

T8 Efficient and sustainable energy use and supply encompassing:

- ✎ techniques for reducing the greenhouse intensity of energy supply.
- ✎ types of renewable energy sources suitable for use in Australia.
- ✎ methods and technique for improving end-use efficiency.

T9 Efficient transport and sustainable urban planning encompassing:

- ✎ how integrating land use and transport planning can assist the greenhouse problem.
- ✎ how each of the following can be used to mitigate greenhouse gas; travel demand and traffic management strategies; encouraging greater use of public transport, walking and cycling; freight and logistics systems; improving vehicle fuel efficiency and fuel technologies;

T10 Greenhouse sinks and sustainable land management encompassing:

- ✎ how enhancing greenhouse sinks and encouraging sustainable forestry and vegetation management can complement the AGS.
- ✎ how greenhouse gas emissions are obtained from agricultural production and describe techniques to mitigate the emissions.

T11 Models of greenhouse best practice in industrial processes and waste management encompassing:

- ✎ types and methods of reducing greenhouse gas emissions from industry.
- ✎ methods of reducing methane emissions from waste treatment and disposal.

T12 Adaptation to climate change encompassing:

٧٨ salient points in each of the key sectors that require analysis and the strategies required in the need for adaptation to climate change

#### ME 434 Mechatronics- Robotics

- Performance characteristics, industrial robot tests, position accuracy test, positioning & fixing robot, straight line measurement, transmission of energy, manipulator, interfacing link, end effector interfacing transmitter circuit, signal output condition, input signal circuitry.
- Remote operator station, input/ output signal parallelizing, application , dual gripper, safety joint, mechanical gripper, vacuum gripper, dual magnetic gripper, contact sensor, proximity sensor, non contact sensor, limit switch , program flow chart, thermocouple sensor.
- Robotic part transfer, robot palletizing, connection of network electronic circuit, list of components, robotic programs, velocity control code.

#### ME 534 Numerical Control

- Components of numerical control, flow diagram, assembly diagram, closed loop, numerical controlled lathe, types of numerical control systems, co-ordinate systems, two axis control, , Z axis control
- Incremental system, absolute system, zero shift system, BCD, ACSII code, Binary coded decimal system, sequence number, leading & trailing zero, suppression
- Feed rate, spindle speed, programming example
- Linear interpolation, circular interpolation, programmable Z depth, tool length compensation
- CNC machines, feed rate, spindle speed, circular interpolation, threading
- Threading numerical program, system subroutines
- CNC program example.

#### ME 634 Pneumatics

- Principle of pneumatics, force, pressure, flow & pressure drop, compressed air, vacuum pressure, atmospheric pressure, gas laws, Boyle's law, Charles's law, Concept of power transmission, Basic concept of Pneumatic system, Directional control valve.
- Pneumatic valve, valve mechanism , normally open/ close valve, spool/ poppet valve, valve conversion.
- Actuator control, time delay valve, cam roller, power valve, air motors, rotary actuator
- Pneumatic sensor, proximity sensor, control problem analysis, Pneumatic air vane governors

#### Mgt 503 Production & Operation Management

Analyze business operations using appropriate performance measures, such as flow time, throughput rate and capacity.

2. Propose business solutions in written and verbal forms for operations improvement and process design projects.

3. Identify inefficiency and ineffectiveness in business operations and propose adequate minor changes or major redesigns to improve the process.
4. Understand the theory and implementations of quality control activities for different industries.
5. Use computing software to determine optimal capacity under various situations in a process.
6. Practice team skills to organize a functioning team to analyze and improve business process.

## Mgt 105 Quality Management and Manufacturing Engineering

Meaning of Quality?

Quality: Customer's Perspective?

Dimensions of Quality: Manufactured Products

Dimensions of Quality: Services

Quality: Producer's Perspective

Outline Deming's 14 Points.

Deming Wheel: PDCA Cycle.

Cause-and-Effect Diagram

Pareto Analysis.

Control Chart.

Quality Management in the Supply Chain.

Quality Circles.

Quality Attributes in Services

Design for Six Sigma (DFSS).

Prevention Cost

External Failure Costs

Quality costs measure and report?

Measuring Product Yield and Productivity.

Quality–Productivity Ratio.

ISO 9000 certification?

## ME 105 Electrical Principle

EE114	Electrical Power Principle
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### KS01-EG006A Single and three-phase transformers

Evidence shall show an understanding of single and three phase transformers to an extent indicated by the following aspects:

T1 Transformer construction encompassing:

- types of lamination style and core construction used in single-phase, three phase, double wound, auto transformers and instrument transformers.
- identification of different winding styles/types used in transformers.
- methods used to insulate low and high voltage transformers.
- construction of transformer tanks for distribution transformers.
- transformer auxiliary equipment. (Bushings, surge-diverters, tap-changers, hot oil & winding indicators, breather, Buchholz relay and conservator).
- function of transformer auxiliary equipment.
- types of information stated on transformer nameplates.
- application of transformers.
- performing basic insulation resistance, continuity and winding identification tests.

T2 Transformer operation encompassing:

- principles of mutual induction of a transformer.
- factors that determine the induced voltage in a transformer winding.
- determining the value of a transformers secondary voltage and current given one winding's electrical details and turns ratio.
- identification of voltage and current components of a phasor diagram for a transformer on no-load.
- principles of power transferred from the primary to secondary when a load is connected using a phasor diagram neglecting impedance drops.
- selecting transformers for specific application/s.
- safety features specified in AS/NZS3000 with respect to transformers and isolating transformers.

T3 Transformer losses, efficiency and cooling encompassing:

- power losses which occur in a transformer.
- tests which allow the power losses of a transformer to be determine.
- determination of transformer losses and efficiency using test results.

relationship between transformer cooling and rating.

- methods used for natural and forced cooling of transformers.
- properties of transformer oil.
- tests conducted on transformer oil.

T4 Transformer voltage regulation and percent impedance encompassing:

- voltage regulation as applicable to a transformer.
- reasons for voltage variation in the output of a transformer.
- determine the voltage regulation of a transformer from voltage and percentage impedance values.
- percentage impedance as applied to transformers.
- determine the percent impedance by using test results.
- determine percent impedance of a transformer by calculation.

T5 Parallel operation of transformers and transformer auxiliary equipment encompassing:

- ↯ determine polarity markings for an unidentified single phase double wound transformer.
- ↯ need for parallel operation of transformers.
- ↯ conditions/restrictions required before two transformers can be connected in parallel.
- ↯ connecting transformers in parallel to supply a single load (loading on transformers operating in parallel).
- ↯ the consequences/effect of an incorrect connection.

T6 Auto-transformers and instrument transformers encompassing:

- ↯ identification of auto-transformers, voltage transformers and current transformers from their winding diagrams.
- ↯ determining voltage and current in the windings of an auto-transformer by calculation.
- ↯ advantages and disadvantages of an auto-transformer.
- ↯ AS/NZS3000 requirements with respect to transformers.
- ↯ construction of voltage transformers.
- ↯ ratings of voltage transformers.
- ↯ construction of current transformers.
- ↯ ratings of current transformers.
- ↯ precautionary measures taken to connect and disconnect instrument transformers.
- ↯ connection diagrams for instrument transformers.
- ↯ applications for auto-transformers and instrument transformers.

## ME 106 Electrical Circuits

EE101	<a href="#">DC Circuit Problems</a>
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This unit covers determining correct operation of single source d.c. series, parallel and series-parallel circuits and providing solutions as they apply to various electrotechnology work functions. It encompasses working safely, problem solving procedures, including the use of voltage, current and resistance measuring devices, providing solutions derived from measurements and calculations to predictable problems in single and multiple path circuits.

Evidence shall show an understanding of electrical fundamentals and direct current multiple path circuits to an extent indicated by the following aspects:

T1 Basic electrical concepts encompassing:

- ↯ electrotechnology industry
- ↯ static and current electricity
- ↯ production of electricity by renewable and non renewable energy sources
- ↯ transportation of electricity from the source to the load via the transmission and distribution systems
- ↯ utilisation of electricity by the various loads
- ↯ basic calculations involving quantity of electricity, velocity and speed with relationship to the generation and transportation of electricity.

T2 Basic electrical circuit encompassing:

- ↯ symbols used to represent an electrical energy source, a load, a switch and a circuit protection device in a circuit diagram
- ↯ purpose of each component in the circuit
- ↯ effects of an open-circuit, a closed-circuit and a short-circuit
- ↯ multiple and sub-multiple units

T3 Ohm's Law encompassing:

- ↯ basic d.c. single path circuit.
- ↯ voltage and currents levels in a basic d.c. single path circuit.
- ↯ effects of an open-circuit, a closed-circuit and a short-circuit on a basic d.c. single path relationship between voltage and current from measured values in a simple circuit
- ↯ determining voltage, current and resistance in a circuit given any two of these quantities
- ↯ graphical relationships of voltage, current and resistance



↵ relationship between voltage, current and resistance

#### T4 Electrical power encompassing:

- ↵ relationship between force, power, work and energy
- ↵ power dissipated in circuit from voltage, current and resistance values
- ↵ power ratings of devices
- ↵ measurement electrical power in a d.c. circuit
- ↵ effects of power rating of various resistors

#### T5 Effects of electrical current encompassing:

- ↵ physiological effects of current and the fundamental principles (listed in AS/NZS 3000) for protection against the this effect
- ↵ basic principles by which electric current can result in the production of heat; the production of magnetic fields; a chemical reaction
- ↵ typical uses of the effects of current
- ↵ mechanisms by which metals corrode
- ↵ fundamental principles (listed in AS/NZS3000) for protection against the damaging effects of current

#### T6 EMF sources energy sources and conversion electrical energy encompassing:

- ↵ basic principles of producing a emf from the interaction of a moving conductor in a magnetic field.
- ↵ basic principles of producing an emf from the heating of one junction of a thermocouple.
- ↵ basic principles of producing a emf by the application of sun light falling on the surface of photovoltaic cells
- ↵ basic principles of generating a emf when a mechanical force is applied to a crystal

#### (piezo electric effect)

- ↵ principles of producing a electrical current from primary, secondary and fuel cells
- ↵ input, output, efficiency or losses of electrical systems and machines
- ↵ effect of losses in electrical wiring and machines
- ↵ principle of conservation of energy

#### T7 Resistors encompassing:

- ↵ features of fixed and variable resistor types and typical applications
- ↵ identification of fixed and variable resistors
- ↵ various types of fixed resistors used in the Electro technology Industry. e.g. wire-wound, carbon film, tapped resistors.
- ↵ various types of variable resistors used in the Electro technology Industry e.g. adjustable resistors: potentiometer and rheostat; light dependent resistor (LDR); voltage dependent resistor (VDR) and temperature dependent resistor (NTC, PTC).
- ↵ characteristics of temperature, voltage and light dependent resistors and typical applications of each
- ↵ power ratings of a resistor.
- ↵ power loss (heat) occurring in a conductor.
- ↵ resistance of a colour coded resistor from colour code tables and confirm the value by measurement.
- ↵ measurement of resistance of a range of variable' resistors under varying conditions of light, voltage, temperature conditions.
- ↵ specifying a resistor for a particular application.

#### T8 Series circuits encompassing:

- ↵ circuit diagram of a single-source d.c. 'series' circuit.
- ↵ Identification of the major components of a 'series' circuit: power supply; loads; connecting leads and switch
- ↵ applications where 'series' circuits are used in the Electro technology industry.
- ↵ characteristics of a 'series' circuit - connection of loads, current path, voltage drops, power dissipation and affects of an open circuit in a 'series' circuit.
- ↵ the voltage, current, resistances or power dissipated from measured or given values of any two of these quantities
- ↵ relationship between voltage drops and resistance in a simple voltage divider network.
- ↵ setting up and connecting a single-source series dc circuit
- ↵ measurement of resistance, voltage and current values in a single source series circuit

↘ effect of an open-circuit on a series connected circuit

T9 Parallel circuits encompassing:

- ↘ schematic diagram of a single-source d.c. 'parallel' circuit.
- ↘ major components of a 'parallel' circuit (power supply, loads, connecting leads and

· applications where 'parallel' circuits are used in the Electrotechnology industry.

- ↘ characteristics of a 'parallel' circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a 'parallel' circuit).
- ↘ relationship between currents entering a junction and currents leaving a junction
- ↘ relationship between branch currents and resistances in a two branch current divider network.
- ↘ calculation of the total resistance of a 'parallel' circuit.
- ↘ calculation of the total current of a 'parallel' circuit.
- ↘ Calculation of the total voltage and the individual voltage drops of a 'parallel' circuit.
- ↘ setting up and connecting a single-source d.c. parallel circuit
- ↘ resistance, voltage and current measurements in a single-source parallel circuit
- ↘ voltage, current, resistance or power dissipated from measured values of any of these quantities
- ↘ output current and voltage levels of connecting cells in parallel.

T10 Series/parallel circuits encompassing:

- ↘ schematic diagram of a single-source d.c. 'series/parallel' circuit.
- ↘ major components of a 'series/parallel' circuit (power supply, loads, connecting leads and switch)
- ↘ applications where 'series/parallel' circuits are used in the Electrotechnology industry.
- ↘ characteristics of a 'series/parallel' circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a 'series/parallel' circuit).
- ↘ relationship between voltages, currents and resistances in a bridge network.
- ↘ calculation of the total resistance of a 'series/parallel' circuit.
- ↘ calculation of the total current of a 'series/parallel' circuit.
- ↘ calculation of the total voltage and the individual voltage drops of a 'series/parallel' circuit.
- ↘ setting up and connecting a single-source d.c. series/ parallel circuit
- ↘ resistance, voltage and current measurements in a single-source d.c. series / parallel circuit
- ↘ the voltage, current, resistances or power dissipated from measured values of any two of these quantities

T11 Factors affecting resistance encompassing:

- ↘ four factors that affect the resistance of a conductor (type of material, length, cross-sectional area and temperature)
- ↘ affect the change in the type of material (resistivity) has on the resistance of a conductor.
- ↘ affect the change in 'length' has on the resistance of a conductor.
- ↘ affect the change in 'cross-sectional area' has on the resistance of a conductor.

effects of temperature change on the resistance of various conducting materials

· effects of resistance on the current-carrying capacity and voltage drop in cables.

- ↘ calculation of the resistance of a conductor from factors such as conductor length, cross-sectional area, resistivity and changes in temperature
- ↘ using digital and analogue ohmmeter to measure the change in resistance of different types of conductive materials (copper, aluminium, nichrome, tungsten) when those materials undergo a change in type of material length, cross-sectional area and temperature.

T12 Effects of meters in a circuit encompassing:

- ↘ selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application.
- ↘ measuring resistance using direct, volt-ammeter and bridge methods.
- ↘ instruments used in the field to measure voltage, current, resistance and insulation resistance and the typical circumstances in which they are used.

- ↯ hazards involved in using electrical instruments and the safety control measures that should be taken.
- ↯ operating characteristics of analogue and digital meters.
- ↯ correct techniques to read the scale of an analogue meters and how to reduce the ‘parallax’ error.
- ↯ types of voltmeters used in the Electrotechnology industry – bench type, clamp meter, Multimeter, etc.
- ↯ purpose and characteristics (internal resistance, range, loading effect and accuracy) of a voltmeter.
- ↯ types of voltage indicator testers. e.g. LED, neon, solenoid, volt-stick, series tester, etc. and explain the purpose of each voltage indicator tester.
- ↯ operation of various voltage indicator testers.
- ↯ advantages and disadvantages of each voltage indicator tester.
- ↯ various types of ammeters used in the Electrotechnology industry – bench, clamp meter, multimeter, etc.
- ↯ purpose of an ammeter and the correct connection (series) of an ammeter into a circuit.
- ↯ reasons why the internal resistance of an ammeter must be extremely low and the dangers and consequences of connecting an ammeter in parallel and/or wrong polarity.
- ↯ selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application
- ↯ connecting an analogue/digital voltmeter into a circuit ensuring the polarities are correct and take various voltage readings.
- ↯ loading effect of various voltmeters when measuring voltage across various loads.
- ↯ using voltage indicator testers to detect the presence of various voltage levels.
- ↯ connecting analogue/digital ammeter into a circuit ensuring the polarities are correct and take various current readings.

#### T13 Resistance measurement encompassing:

- ↯ Identification of instruments used in the field to measure resistance (including insulation resistance) and the typical circumstances in which they are used.
- ↯ the purpose of an Insulation Resistance (IR) Tester.
- ↯ the parts and functions of various analogue and digital IR Tester (selector range switch, zero ohms adjustment, battery check function, scale and connecting leads).
- ↯ reasons why the supply must be isolated prior to using the IR tester.
- ↯ where and why the continuity test would be used in an electrical installation.
- ↯ where and why the insulation resistance test would be used in an electrical installation.
- ↯ the voltage ranges of an IR tester and where each range may be used. e.g. 250 V d.c, 500 V d.c and 1000 V d.c
- ↯ AS/NZS3000 Wiring Rules requirements – continuity test and insulation resistance (IR) test.
- ↯ purpose of regular IR tester calibration.
- ↯ the correct methods of storing the IR tester after use
- ↯ carry out a calibration check on a IR Tester
- ↯ measurement of low values of resistance using an IR tester continuity functions.
- ↯ measurement of high values of resistance using an IR tester insulation resistance function.
- ↯ volt-ammeter (short shunt and long shunt) methods of measuring resistance.
- ↯ calculation of resistance values using voltmeter and ammeter reading (long and short shunt connections)
- ↯ measurement of resistance using volt-ammeter methods

#### T14 Capacitors and Capacitance encompassing:

- ↯ basic construction of standard capacitor, highlighting the: plates, dielectric and connecting leads
- ↯ different types of dielectric material and each dielectric’s relative permittivity.
- ↯ identification of various types of capacitors commonly used in the Electrotechnology industry (fixed value capacitors -stacked plate, rolled, electrolytic, ceramic, mica and Variable value capacitors – tuning and trimmer)
- ↯ circuit symbol of various types of capacitors: standard; variable, trimmer and polarised
- ↯ terms: Capacitance (C), Electric charge (Q) and Energy (W)
- ↯ unit of: Capacitance (Farad), Electric charge (Coulomb) and Energy (Joule)
- ↯ factors affecting capacitance (the effective area of the plates, the distance between the plates and the type of dielectric) and explain how these factors are present in all circuits to some extent.
- ↯ how a capacitor is charged in a d.c. circuit.
- ↯ behaviour of a series d.c. circuit containing resistance and capacitance components. - charge and discharge curves

the term ‘Time Constant’ and its relationship to the charging and discharging of a capacitor.

- ↯ calculation of quantities from given information: Capacitance ( $Q = VC$ ); Energy ( $W = \frac{1}{2}CV^2$ ); Voltage ( $V = Q/C$ )

- ↗ calculation one time constant as well as the time taken to fully charge and discharge a given capacitor. ( $\tau = RC$ )
- ↗ connection of a series d.c. circuit containing capacitance and resistor to determine the time constant of the circuit

T15 Capacitors in Series and Parallel encompassing:

- ↗ hazards involved in working with capacitance effects and the safety control measures that should be taken.
- ↗ safe handling and the correct methods of discharging various size capacitors
- ↗ dangers of a charged capacitor and the consequences of discharging a capacitor through a person
- ↗ factors which determine the capacitance of a capacitor and explain how these factors are present in all circuits to some extent.
- ↗ effects of capacitors connected in parallel by calculating their equivalent capacitance.
- ↗ effects on the total capacitance of capacitors connected in series by calculating their equivalent capacitance.
- ↗ Connecting capacitors in series and/or parallel configurations to achieve various capacitance values.
- ↗ common faults in capacitors.
- ↗ testing of capacitors to determine serviceability.
- ↗ application of capacitors in the Electrotechnology industry.

### ME 108 Principle of Engine

Principle of internal combustion engine, heat transfer in engine, cylinder heat flux & temperature, heat transfer equation in engine, boiling of coolant, exhaust valves, engine strokes, fuel combustion, product of combustion, ignition circuit, fuel supply lines in engine, fuel pump, fuel injectors, fuel injector, fuel injection pump, fuel injection timing, fuel governor, governor control system.

# St Clements University Certificate/ Diploma / Advanced Diploma in Electrical Engineering

## Course + Credit Outlines

### YEAR 1 Certificate in Electrical Engineering 15 credits

	<b>SEMESTER (1)</b>	<b>Credits</b>
<a href="#">EE101</a>	<a href="#">DC Circuit Problems</a>	1
<a href="#">EE102</a>	<a href="#">Basic Electrical Fitting &amp; Wiring</a>	1
<a href="#">EE103</a>	<a href="#">Basic Electrical Drafting</a>	1
<a href="#">EE104</a>	<a href="#">Electrical Equipments Safety Protection</a>	2
<a href="#">EE105</a>	<a href="#">Electrical Installation Design</a>	1
<a href="#">EE106</a>	<a href="#">Advanced Electrical Wiring</a>	1
<a href="#">EE107</a>	<a href="#">Electrical Equipments</a>	1
<a href="#">EE108</a>	<a href="#">Electrical Fault Finding</a>	1
<a href="#">EE109</a>	<a href="#">Electrical Control Circuits</a>	1
<a href="#">EE110</a>	<a href="#">Computer Applications</a>	1
<a href="#">EE111</a>	<a href="#">Electromagnetism &amp; Basic Electrical Machines</a>	2
<a href="#">EE112</a>	<a href="#">Alternating Current Principle</a>	2
		15 Credits
	<b>Diploma in Electrical Engineering 30 credits</b>	<b>Credits</b>
	<b>SEMESTER (2)</b>	-
<a href="#">EE113</a>	<a href="#">Electrical Fundamental</a>	2
<a href="#">EE114</a>	<a href="#">Electrical Power Principle</a>	1
<a href="#">EE115</a>	<a href="#">Basic Analogue &amp; Digital Electronics</a>	2
<a href="#">EE116</a>	<a href="#">Process Control System</a>	3
<a href="#">EE117</a>	<a href="#">Solar Electrical System</a>	1

<a href="#">EE118</a>	<a href="#">Electrical Energy Supply System</a>	3
<a href="#">EE119</a>	<a href="#">Electrical Risk Assessment</a>	1
<a href="#">EE120</a>	<a href="#">Electrical Contracting &amp; Specification</a>	1
<a href="#">EE121</a>	<a href="#">Electronics Power Control Device</a>	1
		<b>30 Credits</b>

	<b>Advanced Diploma in Electrical Engineering 60 credits</b>	<b><u>Credits</u></b>
	<b><u>SEMESTER (1)</u></b>	
<a href="#">EE201</a>	<a href="#">Engineering Mathematics</a>	1
<a href="#">EE202</a>	<a href="#">Electrical Circuits</a>	1
<a href="#">EE203</a>	<a href="#">Three Phase Power Circuits</a>	1
<a href="#">EE204</a>	<a href="#">Engineering Physics</a>	1
<a href="#">EE205</a>	<a href="#">Electrical Power System</a>	2
<a href="#">EE206</a>	<a href="#">AC Machines</a>	2
<a href="#">EE207</a>	<a href="#">DC Machine</a>	1
<a href="#">EE208</a>	<a href="#">Operational Amplifiers</a>	2
<a href="#">EE209</a>	<a href="#">Analogue Electronics</a>	1

	<b><u>SEMESTER (2)</u></b>	
<a href="#">EE301</a>	<a href="#">Advanced Electrical Drafting</a>	1
<a href="#">EE302</a>	<a href="#">Advanced Engineering Mathematics</a>	2
<a href="#">EE303</a>	<a href="#">Transmission Line</a>	2
<a href="#">EE304</a>	<a href="#">Power System Protection</a>	2

<a href="#">EE305</a>	<a href="#">Power Transformer</a>	2
<a href="#">EE306</a>	<a href="#">Electro-mechanical Control</a>	2
<a href="#">EE307</a>	<a href="#">Energy Efficient Building Design</a>	2
<a href="#">EE308</a>	<a href="#">Sustainability</a>	1
<a href="#">EE309</a>	<a href="#">Project Management</a>	2
<a href="#">EE310</a>	<a href="#">Engineering Officer Competency Report</a>	2
		<b>30 Credits</b>

EE101	<a href="#">DC Circuit Problems</a>
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This unit covers determining correct operation of single source d.c. series, parallel and series-parallel circuits and providing solutions as they apply to various electrotechnology work functions. It encompasses working safely, problem solving procedures, including the use of voltage, current and resistance measuring devices, providing solutions derived from measurements and calculations to predictable problems in single and multiple path circuits.

Evidence shall show an understanding of electrical fundamentals and direct current multiple path circuits to an extent indicated by the following aspects:

T1 Basic electrical concepts encompassing:

- ↯ electrotechnology industry
- ↯ static and current electricity
- ↯ production of electricity by renewable and non renewable energy sources
- ↯ transportation of electricity from the source to the load via the transmission and distribution systems
- ↯ utilisation of electricity by the various loads

→ basic calculations involving quantity of electricity, velocity and speed with relationship to the generation and transportation of electricity.

## T2 Basic electrical circuit encompassing:

- symbols used to represent an electrical energy source, a load, a switch and a circuit protection device in a circuit diagram
- purpose of each component in the circuit
- effects of an open-circuit, a closed-circuit and a short-circuit
- multiple and sub-multiple units

## T3 Ohm's Law encompassing:

- basic d.c. single path circuit.
- voltage and currents levels in a basic d.c. single path circuit.
- effects of an open-circuit, a closed-circuit and a short-circuit on a basic d.c. single path relationship between voltage and current from measured values in a simple circuit
- determining voltage, current and resistance in a circuit given any two of these quantities
- graphical relationships of voltage, current and resistance
- relationship between voltage, current and resistance

## T4 Electrical power encompassing:

- relationship between force, power, work and energy
- power dissipated in circuit from voltage, current and resistance values
- power ratings of devices
- measurement electrical power in a d.c. circuit
- effects of power rating of various resistors

## T5 Effects of electrical current encompassing:

- physiological effects of current and the fundamental principles (listed in AS/NZS 3000) for protection against the this effect
- basic principles by which electric current can result in the production of heat; the production of magnetic fields; a chemical reaction
- typical uses of the effects of current
- mechanisms by which metals corrode
- fundamental principles (listed in AS/NZS3000) for protection against the damaging effects of current

## T6 EMF sources energy sources and conversion electrical energy encompassing:

- basic principles of producing a emf from the interaction of a moving conductor in a magnetic field.
- basic principles of producing an emf from the heating of one junction of a thermocouple.
- basic principles of producing a emf by the application of sun light falling on the surface of photovoltaic cells
- basic principles of generating a emf when a mechanical force is applied to a crystal

## (piezo electric effect)

- principles of producing a electrical current from primary, secondary and fuel cells



- ↯ input, output, efficiency or losses of electrical systems and machines
- ↯ effect of losses in electrical wiring and machines
- ↯ principle of conservation of energy

## T7 Resistors encompassing:

- ↯ features of fixed and variable resistor types and typical applications
- ↯ identification of fixed and variable resistors
- ↯ various types of fixed resistors used in the Electro technology Industry. e.g. wire-wound, carbon film, tapped resistors.
- ↯ various types of variable resistors used in the Electro technology Industry e.g. adjustable resistors: potentiometer and rheostat; light dependent resistor (LDR); voltage dependent resistor (VDR) and temperature dependent resistor (NTC, PTC).
- ↯ characteristics of temperature, voltage and light dependent resistors and typical applications of each
- ↯ power ratings of a resistor.
- ↯ power loss (heat) occurring in a conductor.
- ↯ resistance of a colour coded resistor from colour code tables and confirm the value by measurement.
- ↯ measurement of resistance of a range of variable resistors under varying conditions of light, voltage, temperature conditions.
- ↯ specifying a resistor for a particular application.

## T8 Series circuits encompassing:

- ↯ circuit diagram of a single-source d.c. 'series' circuit.
- ↯ Identification of the major components of a 'series' circuit: power supply; loads; connecting leads and switch
- ↯ applications where 'series' circuits are used in the Electro technology industry.
- ↯ characteristics of a 'series' circuit - connection of loads, current path, voltage drops, power dissipation and affects of an open circuit in a 'series' circuit.
- ↯ the voltage, current, resistances or power dissipated from measured or given values of any two of these quantities
- ↯ relationship between voltage drops and resistance in a simple voltage divider network.
- ↯ setting up and connecting a single-source series dc circuit
- ↯ measurement of resistance, voltage and current values in a single source series circuit
- ↯ effect of an open-circuit on a series connected circuit

## T9 Parallel circuits encompassing:

- ↯ schematic diagram of a single-source d.c. 'parallel' circuit.
- ↯ major components of a 'parallel' circuit (power supply, loads, connecting leads and
- ↯ applications where 'parallel' circuits are used in the Electrotechnology industry.
- ↯ characteristics of a 'parallel' circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a 'parallel' circuit).
- ↯ relationship between currents entering a junction and currents leaving a junction
- ↯ relationship between branch currents and resistances in a two branch current divider network.
- ↯ calculation of the total resistance of a 'parallel' circuit.
- ↯ calculation of the total current of a 'parallel' circuit.
- ↯ Calculation of the total voltage and the individual voltage drops of a 'parallel' circuit.
- ↯ setting up and connecting a single-source d.c. parallel circuit

- resistance, voltage and current measurements in a single-source parallel circuit
- voltage, current, resistance or power dissipated from measured values of any of these quantities
- output current and voltage levels of connecting cells in parallel.

#### T10 Series/parallel circuits encompassing:

- schematic diagram of a single-source d.c. ‘series/parallel’ circuit.
- major components of a ‘series/parallel’ circuit (power supply, loads, connecting leads and switch)
- applications where ‘series/parallel’ circuits are used in the Electrotechnology industry.
- characteristics of a ‘series/parallel’ circuit. (load connection, current paths, voltage drops, power dissipation, affects of an open circuit in a ‘series/parallel’ circuit).
- relationship between voltages, currents and resistances in a bridge network.
- calculation of the total resistance of a ‘series/parallel’ circuit.
- calculation of the total current of a ‘series/parallel’ circuit.
- calculation of the total voltage and the individual voltage drops of a ‘series/parallel’ circuit.
- setting up and connecting a single-source d.c. series/ parallel circuit
- resistance, voltage and current measurements in a single-source d.c. series / parallel circuit
- the voltage, current, resistances or power dissipated from measured values of any two of these quantities

#### T11 Factors affecting resistance encompassing:

- four factors that affect the resistance of a conductor (type of material, length, cross-sectional area and temperature)
- affect the change in the type of material (resistivity) has on the resistance of a conductor.
- affect the change in ‘length’ has on the resistance of a conductor.
- affect the change in ‘cross-sectional area’ has on the resistance of a conductor.

#### effects of temperature change on the resistance of various conducting materials

- effects of resistance on the current-carrying capacity and voltage drop in cables.
- calculation of the resistance of a conductor from factors such as conductor length, cross-sectional area, resistivity and changes in temperature
- using digital and analogue ohmmeter to measure the change in resistance of different types of conductive materials (copper, aluminium, nichrome, tungsten) when those materials undergo a change in type of material length, cross-sectional area and temperature.

#### T12 Effects of meters in a circuit encompassing:

- selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application.
- measuring resistance using direct, volt-ammeter and bridge methods.
- instruments used in the field to measure voltage, current, resistance and insulation resistance and the typical circumstances in which they are used.
- hazards involved in using electrical instruments and the safety control measures that should be taken.
- operating characteristics of analogue and digital meters.
- correct techniques to read the scale of an analogue meters and how to reduce the ‘parallax’ error.
- types of voltmeters used in the Electrotechnology industry – bench type, clamp meter, Multimeter, etc.
- purpose and characteristics (internal resistance, range, loading effect and accuracy) of a voltmeter.
- types of voltage indicator testers. e.g. LED, neon, solenoid, volt-stick, series tester, etc. and explain the purpose of each voltage indicator tester.

- ↯ operation of various voltage indicator testers.
- ↯ advantages and disadvantages of each voltage indicator tester.
- ↯ various types of ammeters used in the Electrotechnology industry – bench, clamp meter, multimeter, etc.
- ↯ purpose of an ammeter and the correct connection (series) of an ammeter into a circuit.
- ↯ reasons why the internal resistance of an ammeter must be extremely low and the dangers and consequences of connecting an ammeter in parallel and/or wrong polarity.
- ↯ selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application
- ↯ connecting an analogue/digital voltmeter into a circuit ensuring the polarities are correct and take various voltage readings.
- ↯ loading effect of various voltmeters when measuring voltage across various loads.
- ↯ using voltage indicator testers to detect the presence of various voltage levels.
- ↯ connecting analogue/digital ammeter into a circuit ensuring the polarities are correct and take various current readings.

#### T13 Resistance measurement encompassing:

- ↯ Identification of instruments used in the field to measure resistance (including insulation resistance) and the typical circumstances in which they are used.
- ↯ the purpose of an Insulation Resistance (IR) Tester.
- ↯ the parts and functions of various analogue and digital IR Tester (selector range switch, zero ohms adjustment, battery check function, scale and connecting leads).
- ↯ reasons why the supply must be isolated prior to using the IR tester.
- ↯ where and why the continuity test would be used in an electrical installation.
- ↯ where and why the insulation resistance test would be used in an electrical installation.
- ↯ the voltage ranges of an IR tester and where each range may be used. e.g. 250 V d.c, 500 V d.c and 1000 V d.c
- ↯ AS/NZS3000 Wiring Rules requirements – continuity test and insulation resistance (IR) test.
- ↯ purpose of regular IR tester calibration.
- ↯ the correct methods of storing the IR tester after use
- ↯ carry out a calibration check on a IR Tester
- ↯ measurement of low values of resistance using an IR tester continuity functions.
- ↯ measurement of high values of resistance using an IR tester insulation resistance function.
- ↯ volt-ammeter (short shunt and long shunt) methods of measuring resistance.
- ↯ calculation of resistance values using voltmeter and ammeter reading (long and short shunt connections)
- ↯ measurement of resistance using volt-ammeter methods

#### T14 Capacitors and Capacitance encompassing:

- ↯ basic construction of standard capacitor, highlighting the: plates, dielectric and connecting leads
- ↯ different types of dielectric material and each dielectric's relative permittivity.
- ↯ identification of various types of capacitors commonly used in the Electrotechnology industry (fixed value capacitors -stacked plate, rolled, electrolytic, ceramic, mica and Variable value capacitors – tuning and trimmer)
- ↯ circuit symbol of various types of capacitors: standard; variable, trimmer and polarised
- ↯ terms: Capacitance (C), Electric charge (Q) and Energy (W)
- ↯ unit of: Capacitance (Farad), Electric charge (Coulomb) and Energy (Joule)
- ↯ factors affecting capacitance (the effective area of the plates, the distance between the plates and the type of dielectric) and explain how these factors are present in all circuits to some extent.
- ↯ how a capacitor is charged in a d.c. circuit.
- ↯ behaviour of a series d.c. circuit containing resistance and capacitance components. - charge and discharge curves

the term 'Time Constant' and its relationship to the charging and discharging of a capacitor.

- ↪ calculation of quantities from given information: Capacitance ( $Q = VC$ ); Energy ( $W = \frac{1}{2}CV^2$ ); Voltage ( $V = Q/C$ )
- ↪ calculation one time constant as well as the time taken to fully charge and discharge a given capacitor. ( $\tau = RC$ )
- ↪ connection of a series d.c. circuit containing capacitance and resistor to determine the time constant of the circuit

T15 Capacitors in Series and Parallel encompassing:

- ↪ hazards involved in working with capacitance effects and the safety control measures that should be taken.
- ↪ safe handling and the correct methods of discharging various size capacitors
- ↪ dangers of a charged capacitor and the consequences of discharging a capacitor through a person
- ↪ factors which determine the capacitance of a capacitor and explain how these factors are present in all circuits to some extent.
- ↪ effects of capacitors connected in parallel by calculating their equivalent capacitance.
- ↪ effects on the total capacitance of capacitors connected in series by calculating their equivalent capacitance.
- ↪ Connecting capacitors in series and/or parallel configurations to achieve various capacitance values.
- ↪ common faults in capacitors.
- ↪ testing of capacitors to determine serviceability.
- ↪ application of capacitors in the Electrotechnology industry.

EE102	Basic Electrical Fitting & Wiring
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This unit covers fixing, securing and mounting techniques as apply in the various electrotechnology work functions. It encompasses the safe use of hand and portable power tools, safe lifting techniques, safe use of ladders and elevated platforms and the selection and safe application of fixing devices and supporting accessories/equipment.

### KS01-EE105A Fixing and support devices/techniques

Evidence shall show an understanding of accessories and support and fixing device and methods and their use to an extent indicated by the following aspects:

T1. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to hollow walls encompassing:

- ↪ types and safe application of devices for hollow wall fixing and support
- ↪ methods/techniques used to fix/support to wood, hollow wall, masonry blocks, plasterboard, panelling
- ↪ types and safe application of fixing devices used in the electrotechnology industry for wood and hollow wall structures (wood screws, coach bolts, self-tappers, self

drilling, metal thread, hollow wall anchors, behind plaster brackets, stud brackets, plasterboard devices, toggle devices)

- ↪ types of tools used for hollow wall fixing and supporting.
- ↪ using various fixing methods to fix/support to hollow walls.

T2. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to solid walls encompassing:

- types and safe application of devices used for solid wall fixing and support

- methods/techniques used in to fix to masonry and concrete structures

- fixing devices used in the electrotechnology industry for solid wall structures (wall-plugs, expanding concrete fixing devices, gas powered fixing tools, powder actuated fixing tools, loxins, dynabolts, chemical devices)

- regulatory requirements for use of powder fixing tools.

- hand and power tools used in fixing and supporting accessories

- using various fixing methods to fix/support to solid walls

T3. Device for securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories to metal fixing encompassing:

- accessories that may be fixed to metal (saddle clips, conduits, brackets, switches)

- techniques for fixing to metal

- fixing devices: coach bolts, self-tappers, metal thread bolts, hollow wall anchors, rivets

- fixing tools - spanners, screwdrivers, power screw drivers, pop riveters, files, reamers

- OH&S issues related to drilling, cutting, eye protection, metal filings, swarf, noise

- Using power drills, drill bits, change drill speeds.

- Install a fixing device and accessory capable of supporting up to 20 kg on the metal plate.

T4. Securing and mounting electrical/electronic/instrumentation/refrigeration/ air-conditioning/telecommunications accessories for supporting, fixing and protecting wiring/cabling/piping and functional accessories using fixing adhesives and tapes encompassing:

- types and safe application of using adhesives and tapes as fixing devices (load limits of different commercial products)

- accessories that may be fixed using adhesives and tapes

- techniques for the application of adhesives and tapes

- tools used to apply and cut adhesives and tapes

- hazards and safety measures when working with adhesives and chemical fixing devices (fumes, cutting, eye protection, physical contact, hand protection, ingestion)

EE103	Basic Electrical Drafting
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This unit covers the use of drawings, diagrams, cable schedules, standards, codes and specifications as they apply to the various electrotechnology work functions. It encompasses the rudiments for communicating with schematic, wiring and mechanical diagrams and equipment and cable/connection schedules, manuals, site and architectural drawings and plans showing the location of services, apparatus, plant and machinery and understanding the use and format of compliance standards and job specifications.

### **KS01-EE107A Drawings, diagrams and schedules**

Evidence shall show an understanding of drawings, diagrams and schedules used in electrotechnology work to an extent indicated by the following aspects:

### T1 Architectural drawings encompassing:

- site plans, floor plans detailed drawings and standard drawings
- architectural floor plan to determine the power and lighting or communications / audio/ video layouts required in a domestic installation
- site plan to locate the service point, consumers mains, communication services, main switchboard, distribution boards and/or builders supplies.
- standard drawing scales to determine the actual lengths represented by dimensions on an architectural drawing.
- reading and interpretation of floor plans to determine the location of the electrical/ communication/audio accessories and appliances.
- Australian standard symbols used on floor plans to show the location of the accessories

and appliances as detailed in an electrical schedule.

### T2 Electrical drawings encompassing:

- types of electrical drawings: block, circuit, wiring and ladder diagrams
- purpose and application of block, circuit, wiring diagrams and ladder diagrams
- Australian standard symbols used to represent components on electrical diagrams.
- conventions used in and the features of circuit diagrams
- converting a circuit diagram to a wiring diagram
- identification of cable type, origin and route from a cable schedule.
- developing a cable schedule for a given installation.

### T3 Circuit diagrams encompassing:

- purpose of circuit diagrams in the electrotechnology industry
- conventions used in and the features of circuit diagrams
- sketching basic circuit diagrams
- common symbols used in circuit diagram (Australian Drawing Standard AS/NZS 1102)
- developing switching charts to identify the terminals of various types of switches
- connecting equipment using circuit diagrams.

### T4 Wiring diagrams encompassing:

- purpose of wiring diagrams in the electrotechnology industry
- conventions used in and the features of wiring diagrams
- sketching basic wiring diagrams
- common symbols used in wiring diagram (Australian Drawing Standard AS/NZS 1102)
- connecting equipment using wiring diagrams.

### T5 Building construction drawings and diagrams encompassing:

- building types: timber frame, brick veneer, double brick and metal frame.
- identification of different types of: footings, floors, external walls, roofs, interior walls
- typical cable routes through buildings, structures and premises
- sequence of each constructional stage for brick, brick veneer and timber cottages
- identification of the stages at which the electrical/communications - first and second fixing occurs in the constructional sequence
- areas of cooperation between electrical/communications and other building trades

This unit covers the arrangement and termination of circuits, control and protection devices and systems for electrical installations operating at voltages up to 1,000 V a.c. or 1,500 V d.c. It encompasses knowledge and application of schemes for protection of persons and property, correct functioning, ensuring compatibility with the supply, arranging installation into circuits and selecting and arranging switchgear/controlgear and protective devices to meet compliance requirements and documenting arrangement decisions

### **KS01-EG063A Electrical installations — arrangement, control and protection**

Evidence shall show an understanding of circuit arrangements, control and protection of electrical installations that comply with the Wiring Rules and Service Rules to an extent indicated by the following aspects:

T1 Safety principles to which electrical systems in building and premises shall comply.

- ↯ Safety principles are given in Part1 (Section 1) of the Wiring Rules AS/NZS 3000 with deemed-to-comply requirements given in Sections 2 to 8.
- ↯ Compliant methods for providing protection - include those for providing protection against direct and indirect contact; thermal effects; unwanted voltages; overcurrent; fault currents; overload; overvoltage; injury from mechanical movement.
- ↯ Requirements for installation design and selection of equipment - includes compliant protection arrangements; correct functioning; compatibility with supply; estimation of maximum demands; voltage drop considerations; arrangement of circuits and the like

T2 Circuit and control arrangements encompassing:

- ↯ reason for dividing electrical installations into circuits
- ↯ factors that shall be considered in determining the number and type of circuits required for an installation.
- ↯ daily and seasonal demand for lighting power, heating and other loads in a given installation.
- ↯ number and types of circuits required for a particular installation.
- ↯ diagrams/schedules of circuits for given installations.
- ↯ application and arrangements of SELV and PELV circuits
- ↯ application and arrangement of an isolated supply

T3 Hazards and risks in an electrical installation encompassing:

- ↯ effects on the human body of various levels of a.c. and d.c. current and duration of current flow for various current paths.
- ↯ risk of ignition of flammable materials due the thermal effects of current or electric

arcs in normal service of an electrical installation.

- ↯ risk of injury from mechanical movement of electrically actuated equipment.
- ↯ Protection against direct contact (basic protection)
- ↯ acceptable methods
- ↯ use of extra-low voltage

T4 Protection against indirect contact encompassing:

- ↯ indirect contact with live parts of an electrical installation may occur.
- ↯ methods and devices that comply with the Wiring Rules for providing protection against indirect contact.
- ↯ components of the 'automatic disconnection of supply' method of protection against indirect contact.



- ↯ the terms 'touch voltage' and 'touch current'.
- ↯ the current path when a short circuit fault to exposed conductive parts of an appliance occurs.
- ↯ protection against indirect contact is by the use of Class II equipment and by electrical separation.
- ↯ additional protection by use of Residual Current Devices (RCDs)
- ↯ protection against indirect contact by use of extra-low voltage and electrical separation.
- ↯ Protection requirements for damp situations.

#### T5 Earthing encompassing:

- ↯ the terms: earthed, earthed situation, earth electrode, equipotential bonding, multiple earthed neutral (MEN) system, protective earth-neutral (PEN) conductor, main earthing conductor, protective earthing (PE) conductor, functional earthing, MEN link.
- ↯ selection of minimum size-earthing conductor for a range of active conductor sizes and materials.
- ↯ parts of an earthing system and the purpose of each.
- ↯ typical arrangement for a MEN earthing system.
- ↯ arrangements of protective earthing conductors that comply with the Wiring Rules.
- ↯ requirements for equipotential bonding in a range of installation situations.
- ↯ Installation of a MEN earthing system for a single phase installation

#### T6 Protection against overload and short circuit current encompassing:

- ↯ overload current or fault currents in an electrical installation.
- ↯ equivalent circuit of an earth fault-loop
- ↯ level of fault current possible at a given point in an installation from the fault-loop impedance and data from the electricity distributor.
- ↯ methods and devices that comply with the Wiring Rules AS/NZS 3000 for providing protection against the damaging effects of overload and fault current
- ↯ requirements for co-ordination between protective devices and conductors

requirements for co-ordination of protection devices for discrimination and back-up protection.

#### T7 Devices for automatic disconnection of supply encompassing:

- ↯ operating principles of thermal/magnet circuit breakers.
- ↯ operating principles of common types of fuses.
- ↯ operating principles of residual current devices (RCD).
- ↯ time/current curves tripping characteristics of various types of circuit breakers that comply with the requirements of the Wiring Rules.
- ↯ time/current curves fusing characteristics of various types of fuses that comply with the requirements of the Wiring Rules.
- ↯ time/current curves tripping characteristics of various types of RCDs that comply with the requirements of the Wiring Rules.
- ↯ factors in a fault loop that will affect the impedance of the circuit.
- ↯ maximum impedance of an earth fault-loop to ensure operating of a protection device.
- ↯ selecting a fuse for fault current limiting protection.
- ↯ drawing switchboard wiring arrangements of 2-pole RCDs, 4-pole RCDs, combination RCD/MCBs.

#### T8 Protection against over voltage and under voltage encompassing:

- ↯ causes of over voltage and how this may affect the electrical system.
- ↯ methods for protection against over voltage.
- ↯ causes of under voltage and how this may affect the electrical system.



→ methods for protection against under voltage.

#### T9 Control of an electrical installation and circuits encompassing:

→ switch types, current and voltage ratings and IP rating and where these apply.

→ switching requirements for isolation, emergency, mechanical maintenance and functional control.

→ control arrangement for complete installations with and without safety services and an alternative supply.

#### T10 Switchboards / distribution boards encompassing:

→ Purpose, types and applications.

→ Physical and circuit arrangements for whole current and CT metering.

→ Physical and circuit arrangements of main switches, circuit protection devices, fault-current limiters and metering equipment and other distributor equipment.

→ compliance requirements (includes location and access, arc fault protection, identification, construction suitability, equipment marking, wiring, fire protection and arc-fault protection).

EE105	Electrical Installation Design
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This unit covers selecting wiring systems and cables for electrical installations operating at voltages up to 1,000V a.c. or 1,500 V d.c. It encompass knowledge and application of wiring systems and cable types, selecting wiring system compatible with the installation conditions, selecting cables that comply with required current-carrying capacity and voltage drop and earth fault-loop impedance limitations, coordination between protective devices and conductors and documenting selection decisions

#### **KS01-EG107A Electrical installation — cable selection and co-ordination**

Evidence shall show an understanding of selecting cables and ensuring co-ordination between protection device and conductors in electrical installations that comply with the Wiring Rules, Selection of cables standards and Service Rules to an extent indicated by the following aspects:

##### T1 Performance requirements - design and safety encompassing:

→ harmful effects against which the design of an electrical installation must provide protection.

→ performance standards of a correctly functioning electrical installation.

→ supply characteristics that shall be considered when designing an electrical installation.

→ acceptable methods for determining the maximum demand in consumer's mains and sub-mains.

→ AS/NZS 3000 requirements limiting voltage drop in an installation.

→ reason for dividing electrical installations into circuits and the factors that shall determine their number and type.

→ typical external factors that may damage an electrical installation and that shall be considered in the installation design.

→ methods for protecting persons and livestock against direct and indirect contact with conductive parts and the typical application of each.

→ acceptable methods of protection against the risks of ignition of flammable materials and injury by burns from the thermal effects of current, in normal service.

→ likely sources of unwanted voltages and the methods for dealing with this potential hazard.

→ acceptable methods for protecting persons and livestock against injury and property against damage from the effects of over current.

→ requirement for protection against fault current.

- ↯ requirement for protection against the harmful effects of faults between live parts of circuits supplied at different voltages.
- ↯ need for protection against injury from mechanical movement and how this may be achieved.
- ↯ features of 'fire rated construction' and how the integrity of the fire rating can be maintained in relation to electrical installation.

## T2 Final subcircuit arrangements encompassing:

- ↯ factors that shall be considered in determining the number and type of circuits required

for an installation.

- ↯ daily and seasonal demand for lighting, power, heating and other loads in a given installation.
- ↯ number and types of circuits required or a particular installation.
- ↯ current requirements for given final subcircuits.
- ↯ layout/schedule of circuits for given installations.

## T3 Factors affecting the suitability of wiring systems encompassing:

- ↯ wiring systems typically used with various construction methods and particular environments.
- ↯ installation conditions that may affect the current-carrying capacity of cables.
- ↯ external influences that may affect the current-carrying capacity and/or may cause damage to the wiring system.
- ↯ AS/NZS 3000 requirements for selecting wiring systems for a range of circuits, installation conditions and construction methods into which the wiring system is to be installed. Note: Wiring systems include cable enclosures, underground wiring, aerial wiring, catenary support, emergency systems, busbar trunking and earth sheath return.

## T4 Maximum demand on consumer's mains/submains encompassing:

- ↯ acceptable methods for determining the maximum demand on an installation's consumer's mains and submains.
- ↯ maximum demand for the consumer's mains for given installations up to 400 A per phase.
- ↯ maximum demand for given submains.

## T5 Cable selection based on current carrying capacity requirements encompassing:

- ↯ installation conditions for a range of wiring systems and applications.
- ↯ external influences that require the use of a derating factor.
- ↯ AS/NZS 3000 requirements for coordination of cables and protection devices.
- ↯ AS/NZS 3008 used to select conductor size based on the maximum current requirement for a given installation condition including any applicable derating factors.

## T6 Cable selection based on voltage drop requirements encompassing:

- ↯ AS/NZS 3000 requirements for maximum voltage drop in an installation.
- ↯ relevant tables in AS/NZS 3008 for unit values of voltage drop.
- ↯ calculation of the expected voltage drop in a given circuit.
- ↯ selecting cables to satisfy voltage drop requirements in addition to current carrying capacity requirements.

## T7 Cable selection based on fault loop impedance requirements encompassing:

- ↯ AS/NZS 3000 requirements for maximum fault loop impedance in an installation.
- ↯ relevant tables in AS/NZS 3008 to determine cable impedances.

- ↵ calculation of the expected fault loop impedance for a given circuit arrangement.
- ↵ selecting cables to satisfy fault loop impedance requirements in addition to current

carrying capacity requirements and voltage drop requirements.

T8 Selecting protection devices encompassing:

- ↵ acceptable methods of protection against indirect contact.
- ↵ AS/NZS 3000 requirements for selecting methods and devices to protect against indirect contact for a range of installation types and conditions.
- ↵ coordination between conductors and protection devices to ensure the protection of cables from over heating due to over current.
- ↵ possible injuries to persons and livestock from hazards due to a short circuit.
- ↵ AS/NZS 3000 requirements for selecting devices to protect against overload current for a range of circuits and loads.
- ↵ AS/NZS 3000 requirements for selecting devices to protect against short-circuit current for a range of installation conditions.

T9 Selecting devices for isolation and switching encompassing:

- ↵ requirements for the provision of the isolation of every circuit in an electrical installation.
- ↵ need for protection against mechanical movement of electrically activated equipment.
- ↵ AS/NZS 3000 requirements for selecting devices for isolation and switching for a range of installations and conditions.

T10 Switchboards encompassing:

- ↵ AS/NZS 3000 and local supply authority requirements for switchboards.
- ↵ tariff structures for the supply of electricity.
- ↵ equipment installed at the main switchboards with capacities up to 400 A per phase.
- ↵ layout of a main switchboard for an installation supplied with single phase single tariff whole current metering.
- ↵ layout of a main switchboard for an installation supplied with single phase multiple tariff whole current metering.
- ↵ layout of a main switchboard for an installation supplied with multiphase single tariff whole current metering.
- ↵ layout of a main switchboard for an installation supplied with multiphase multiple tariff whole current metering.
- ↵ layout of a main switchboard for a multiple tenancy installation with whole current metering.
- ↵ layout of a main switchboard, including metering, for an installation supplied with three phase CT metering.
- ↵ local supply authority requirements for connection of an electrical installation to the electrical supply system

EE106

Advanced Electrical Wiring

This unit covers the installation in building and premises of wiring enclosures, cable support systems, cables and accessories and designed to operate at voltages up to 1,000 V a.c. or 1,500 V d.c. It encompasses working safely and to installation standards, routing cables to specified locations, terminating cables and connecting wiring at accessories and completing the necessary installation documentation.

**KS01-EG103A Installation of wiring systems**

Evidence shall show an understanding of the installation of wiring systems that comply with standards to an extent indicated by the following aspects:

T1 Standards, codes and requirements applicable to the installation of wiring systems encompassing:

- ↯ Cables and methods of mechanical protection and support
- ↯ Protection against and from other services.
- ↯ Prohibited cable locations
- ↯ Building codes affecting the installation of cables in buildings, structures and premises (limitation on penetration of structural elements, maintenance of fire protection integrity, and wiring above suspected ceilings)
- ↯ Issues affecting electrical installations in heritage buildings and premises (limitation on penetration of structural and finished elements, accessing cable routes, types and colour of exposed accessories).

T2 Use of other installation standards called up by the Wiring Rules for special situations encompassing:

- ↯ standards that apply to Electromedical treatment areas.
- ↯ additional requirements for construction and demolition sites.
- ↯ Relocatable installations and their site supply
- ↯ additional requirements for caravan park.
- ↯ additional requirements for marinas and pleasure craft at low voltage.
- ↯ additional requirements for shows and carnivals.

T3 Hazardous areas encompassing:

- ↯ Conditions that apply in an areas that require them to be classified as a 'Hazardous area'.
- ↯ Responsibility for classifying a hazardous area
- ↯ Awareness of standards called up by the Wiring Rules for selection of equipment and installations in Hazardous areas. (AS/NZS 3000 requirements for hazardous areas).

T4 Requirement for the installation of cables and accessories in damp situations and ELV installations encompassing:

- ↯ restricted zones around baths, showers, fixed water containers, pools, sauna heaters and fountains/water features for given installations.
- ↯ selecting equipment suitable for installation in given damp situations.
- ↯ voltage range that defines extra-low voltage.
- ↯ 'Separated extra-low voltage (SELV) system' and a 'Protected extra-low voltage (PELV) system'.
- ↯ AS/NZS 3000 requirements for selecting extra-low voltage systems and devices for a range of installations and conditions.

T5 Aerial cabling encompassing:

- ↯ Describe the types of aerial cabling.
- ↯ State the AS/NZS 3000 and local supply authority requirements for aerial cabling.
- ↯ Termination of aerial cables in accordance with AS/NZS 3000 and local requirements.
- ↯ installation of consumers mains for connection via overhead consumers terminals in

ccordance with AS/NZS 3000 and local requirements.

- ↯ Testing of installed cables compliance with Australian Standards

T6 Underground cabling encompassing:

- ↯ Describe permissible underground cabling systems.
- ↯ Identify other underground services.
- ↯ State the AS/NZS 3000 and local supply authority requirements for underground cabling.
- ↯ List the advantages and disadvantages of underground wiring systems
- ↯ selection of underground consumers mains in accordance with AS/NZS 3000 and local requirements

#### T7 Techniques for installing cables and wiring systems encompassing:

- ↯ Typical cable routes through buildings, structures and premises.
- ↯ Application of wiring accessories
- ↯ Drawing-in, placing and fixing of cables
- ↯ Cable and conductor terminations
- ↯ Maintaining fire rating integrity.
- ↯ Inspecting and testing installed and terminated cables to ensure they comply with continuity and insulation resistance and are safe to connect to the supply.

EE107	Electrical Equipments
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This unit covers the installation of appliances protection devices, switchgear, controlgear, switchboards, and accessories designed to operate at voltages up to 1,000 V a.c. or 1,500 V d.c. It encompasses working safely and to installation standards, matching appliances and accessories with that specified, making required circuit connections and completing the necessary installation documentation.

vidence shall show an understanding of the installation of appliances (current-using equipment) and accessories to an extent indicated by the following aspects:

#### T1 Installation standards, codes and requirements applicable to installing electrical equipment encompassing.

- ↯ Protection against thermal effects
- ↯ Connection of electrical equipment (appliances, switchgear and accessories include switchgear and controlgear, switchboards, socket-outlets, lighting equipment and accessories, lamps and luminaires, smoke and fire detectors, cooking appliances, appliances producing hot water or steam, room heaters, electric heating cables for floors and ceilings, space heating, duct heaters, electricity converters, motors, transformers, capacitors, and batteries).
- ↯ Required and permitted locations current-using equipment and accessories
- ↯ Control, switching and over current and RCD protection

#### T2 Terminal configuration for connection of phase, neutral and protective earthing conductors for each type of equipment.

#### T3 Building codes affecting the installation of current-using equipment and accessories in buildings, structures and premises encompassing:

- ↯ maintenance of fire protection integrity, requirements for emergency services (safety services) and the like.

#### T4 Issues affecting electrical installations in heritage buildings and premises encompassing:

- ↯ limitation on types and colour of exposed accessories.

EE108	Electrical Fault Finding
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This unit covers trouble-shooting and repairing faults in electrical apparatus and interconnecting circuits and equipment operating at voltages up to 1,000 V a.c. or 1,500 V d.c. It encompasses working safely, reading circuit diagrams, sketching diagrams from traced wiring, logically applying fault finding procedures, conducting repairs and completing the necessary service documentation.

### **KS01-EG108A Electrical circuit and equipment faults and fault finding techniques**

Evidence shall show an understanding of electrical circuit and equipment faults and fault finding techniques to an extent indicated by the following aspects:

T1 Troubleshooting concepts encompassing:

- ↯ need to understand the correct operation of a circuit or equipment, switching and control circuit arrangements.
- ↯ common faults with circuits and equipment including operator faults, incorrect connections, open-circuits, short-circuits, device faults (mechanical), supply faults.
- ↯ typical faults symptoms and their causes: operation of circuit protective device, appliance does not operate, single phase motor does not develop enough torque to drive the load, three phase motor does not develop enough torque to drive the load, motor overload trips
- ↯ factors to consider in clarifying the nature of a fault: initial fault report, confirmation of

symptoms of the fault, comparison of symptoms with normal operation

- ↯ effect to cause reasoning — assumptions of possible causes
- ↯ methods for testing assumptions: visual inspection, component isolation, test equipment, sectional testing, split-half tests
- ↯ repairing the fault and the steps needed to ensure fault doesn't re-occur
- ↯ dealing with intermittent faults (typical causes of intermittent faults are vibration, shock, changes in temperature and electromagnetic interference).
- ↯ final testing and re commissioning

T2 Troubleshooting water heater and appliance circuits/equipment encompassing:

- ↯ circuit diagrams of common single phase and three phase hot water systems
- ↯ single phase and three phase element resistance values (determined from measurement and calculation from power and voltage ratings)
- ↯ testing single and three phase elements for correct insulation resistance and continuity
- ↯ element replacement techniques
- ↯ operation of thermostats, thermal cut-outs and pressure relief valves, flow switches and checking sacrificial anodes
- ↯ locating faults in common single and three phase hot water systems
- ↯ repairing faulty water heating systems

T3 Troubleshooting electrical appliance circuits/equipment encompassing:

- ↯ circuit diagrams of common single phase and three phase appliances
- ↯ methods to determine the cause of an RCD operation
- ↯ identification of appliances that is causing an RCD to trip
- ↯ testing single and three phase appliances for correct insulation resistance and continuity
- ↯ operation of appliances controls
- ↯ locating faults in common single and three phase appliances
- ↯ repairing faulty appliances

T4 Troubleshooting lighting circuits encompassing:

- circuit and wiring diagrams of common lighting circuits including single light controlled by a single switch, multiple lights controlled by a single switch, two and three way switching using the loop at the light method and the loop at the switch method.
- causes of wiring faults from supplied symptoms and circuit and/or wiring diagrams
- causes of faults in ELV lighting devices, include transformer (iron core or electronic), voltage drop, heat, over-voltage, poor connections, incompatible dimmers
- diagrams of a basic fluorescent light circuit including lamp, ballast and starter
- locating faults in fluorescent light circuits
- operation of a range of lighting control including passive infra-red (PIR), dimmers, photo electric or day-light switches and time clocks
- locating faults in lighting control circuits

#### T5 Troubleshooting single phase motor and control circuits encompassing:

circuit diagrams of split phase, capacitor start, capacitor start capacitor run, universal and shaded pole single phase motors

- causes of single phase motor faults from supplied symptoms and circuit diagrams
- causes of electrical faults in single phase motors, include open and partially open circuit winding, short and partially short circuit winding, open circuit rotor, burnt out winding, coil shorted to frame.
- reasons for a thermal overload trip and how often they are to be reset before investigating a cause
- internal mechanical faults and their consequences, include bearings, fans, bent shaft, locked rotor, blocked air vents, centrifugal switches, environmental factors
- faults on driven loads and couplings and their consequences, include slipping belts, poorly aligned coupling (shims), vibration, loads bearing failing, load stalling.
- locating faults in single phase motors and their controls

#### T6 Troubleshooting three phase induction motor encompassing:

- circuit diagrams of three phase induction motors
- causes of three phase motor faults from supplied symptoms and circuit diagrams
- causes of electrical faults in three phase motors, include open and partially open circuit phase winding, short and partially short circuit phase winding, open circuit rotor, burnt out phase winding, coil shorted to frame.
- reasons for a thermal overload trip and how often they are to be reset before investigating a cause
- internal mechanical faults and their consequences, include bearings, fans, bent shaft, locked rotor, blocked air vents, environmental factors.
- faults on driven loads and couplings and their consequences, include slipping belts, poorly aligned coupling (shims), vibration, loads bearing failing, load stalling.
- locating faults in three phase induction motors and their controls

#### T7 Troubleshooting electrical installations encompassing:

- circuit diagrams, wiring diagrams, cable schedules and specifications of electrical installations
- causes of electrical installation faults from supplied symptoms and circuit diagrams include open and partially open circuit wiring, short and partially short circuit wiring, low insulation resistance, incorrect polarity, transposition of conductors, RCD tripping.
- locating faults in electrical installations
- repairing faulty electrical installation circuits components and wiring.



This unit covers developing, connecting and functionally testing electrical power and control circuits that perform specific control functions. It encompasses working safely; developing schematic/ladder diagrams and converting them to wiring diagrams; selecting and connecting contactors and control devices to perform a specific function.

### **KS01-EG109A Electrical control devices and circuits**

Evidence shall show an understanding of electrical control devices and circuits to an extent indicated by the following aspects:

T1 Basic relay circuits encompassing:

- ↯ Identification of given circuit diagrams (schematic) symbols and explain the operation of the components represented
- ↯ labelling wires and terminal (numbering systems)
- ↯ control relay - operating principles, basic contact configurations and identification and common applications
- ↯ push button - switching configurations and common applications
- ↯ selecting pushbuttons/pilot lamps from manufacturer's catalogues for specific applications
- ↯ development of simple stop-start relay circuit that incorporates pilot lights and latching circuit.
- ↯ connection and testing of control circuits

T2 Relay circuits and drawing conventions encompassing:

- ↯ circuit diagram drawing conventions
- ↯ selecting relays from manufacturers' catalogue for specified applications
- ↯ circuit development of electrical control circuit in accordance with a written description (specification) and list the sequence of operation of the circuit
- ↯ connecting simple electrical control circuit from circuit diagrams
- ↯ applying safe working practices when testing an electrical control circuit

T3 Remote STOP-START control and electrical interlocking encompassing:

- ↯ operation of local and remote start-stop control of relays
- ↯ operation of an electrically interlocked relay circuit
- ↯ development of a relay circuit incorporating local and remote start and stop buttons and electrical interlocking.
- ↯ connecting electrical circuits with local and remote start-stop control and with electrical interlocking.
- ↯ applying circuit checking and testing techniques to an electrical control circuit.

T4 Time delay relays encompassing:

- ↯ timers - operating principles, basic contact configurations and identification and common applications
- ↯ selecting timers for specified functions from manufactures' catalogues
- ↯ development of timer controlled circuits from a written description and list the sequence of circuit operation
- ↯ connecting a timer controlled circuit using a circuit diagram as a guide.
- ↯ timer circuit checking and testing procedures.

T5 Circuits using contactors encompassing:

- ↯ contactors - operating principles, basic contact configurations and identification and common applications
- ↯ thermal overloads - operating principles, basic contact configurations and identification and common applications
- ↯ circuit diagram symbols
- ↯ circuit development using a contactor



- using contactors for motor control.
- compliance requirements for devices for isolating circuits.

## T6 Jogging and interlocking encompassing:

- purpose and application of jogging control of motors
- operation of motor control using start, stop and jog buttons
- purpose and application of electrical/mechanical interlocking
- developing a multiple motor starting circuit from a description of the circuit operation including jog and interlock functions.
- selecting circuit components using manufacturers' catalogues for appropriate duty

## ratings

- connecting and testing a multiple motor starting circuit which incorporates start, stop and jog control.

## T7 Control devices encompassing:

- common control devices used in automatic control circuits: limit switches, proximity switches, photoelectric cells, pressure switches, float switches, light sensors and temperature sensors
- basic operating principles of common control devices
- advantages and disadvantages of common control devices
- applications for common control devices
- selecting control devices using manufacturers' catalogues for specified applications
- connection of control devices into control circuits

## T8 Programmable relays encompassing:

- programmable relays - advantages over electromagnetic relay circuit control.
- typical applications of programmable relays.
- block diagram representation and basic operating principles
- input and output parameters, listing, connections and output types.
- connecting input and output devices to a programmable relay using a diagram
- basic programming of ladder circuits consisting of inputs, outputs i.e. stop-start circuit
- using the monitoring facility of the programmable relay to verify each ladder circuit operation.
- programming timers and using the monitoring facility of the programmable relay to check the values of the timer
- external devices
- implications of programming normally closed field devices
- conversion of control circuits
- installation of programmable control relays
- common faults and their symptoms

## T9 Three-phase induction motor starters encompassing:

- reasons for limiting the starting current of large motors.
- requirements of the wiring rules (AS/NZS 3000) and the local supply authority service rules, with regard to starting and control of induction motors.
- DOL starter operating principles, applications and circuits
- electronic (soft) starter operating principles, applications and circuits
- connecting a DOL motor starter and testing the operation of the power and control circuits
- installation of DOL and soft starters

T10 Three-phase induction motor starters- reduced voltage encompassing:

- star-delta starter operating principles and circuits

primary resistance starter operating principles and circuits

- auto-transformer starter operating principles and circuits

- secondary resistance starter operating principles and circuits

- common applications for each starter type

- comparison of motor starters basic characteristics

- selecting the most suitable motor starter for a given situation

- connecting motor starter power and control circuits for correct operation

- measuring starting current and torque of selected motor starters

- installation of reduced voltage starters

T11 Three-phase induction motor reversal and braking encompassing:

- reversing operating principles and control circuits

- plug braking operating principles and circuits

- dynamic braking operating principles and circuits

- regenerative braking operating principles and circuits

- eddy current brakes operating principles and circuits

- mechanical brakes operating principles and circuits

- comparison of the difference braking methods used.

- typical applications for each braking method.

- connecting a circuit with a braking feature to operate a three-phase motor.

- installation of motor braking control circuits

T12 Three-phase induction motor speed control encompassing:

- pole changing operating principles and circuits

- variable frequency drives operating principles and circuits

- slip-ring motors operating principles and circuits

- installation of motor speed controllers.

EE110	Computer Applications
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This unit covers the basic use of personal computers application relevant to a work function. It encompasses switching the computer on, applying user preferences, selecting basic applications, entering and retrieving information and printing files.

### KS01-ED101A Basic Computer Applications

Evidence shall show an understanding of computer use basics to an extent indicated by the following aspects:

T1 Starting up

T2 Selecting application  
T3 Entering information  
T4 Saving  
T5 Printing

EE111

Electromagnetism & Basic Electrical Machines

This unit covers determining correct operation of electromagnetic devices and related circuits and providing solutions as they apply to electrical installations and equipment. It encompasses working safely, power circuit problems solving processes, including the use of voltage, current and resistance measuring devices, providing solutions derived from measurements and calculations to predictable problems in electromagnetic devices and related circuits

### **KS01-EG101A Electromagnetic devices and circuits**

Evidence shall show an understanding of electromagnetic devices and circuits to an extent indicated by the following aspects:

#### **T1 Magnetism encompassing:**

- ↯ magnetic field pattern of bar and horse-shoe magnets.
- ↯ magnets attraction and repulsion when brought in contact with each other.
- ↯ common magnetic and non-magnetic materials and groupings (diamagnetic, paramagnetic and ferromagnetic materials).
- ↯ principle of magnetic screening (shielding) and its applications.
- ↯ practical applications of magnets
- ↯ construction, operation and applications of reed switches.

#### **T2 Electromagnetism encompassing:**

- ↯ conventions representing direction of current flow in a conductor.
- ↯ magnetic field pattern around a single conductor and two adjacent conductors

#### **carrying current.**

- ↯ Using the “right hand rule” to determine the direction of magnetic field around a current carrying conductor.
- ↯ direction of force between adjacent current carrying conductors.
- ↯ effect of current, length and distance apart on the force between conductors (including forces on bus bars during fault conditions).
- ↯ magnetic field around an electromagnet.
- ↯ Using the “right hand rule” to determine the direction of magnetic field around a current carrying coil.
- ↯ magnetomotive force (m.m.f.) and its relationship to the number of turns in a coil and the current flowing in the coil.
- ↯ practical applications of electromagnets.

#### **T3 Magnetic circuits encompassing:**

- ↯ magnetic characteristic curve for various materials and identify the various regions.
- ↯ Identify the various conditions of a magnetic material from its Hysteresis loop.
- ↯ factors which determine losses in magnetic material.
- ↯ methods used to reduce electrical losses in a magnetic circuit.

- ↵ magnetic flux (definition, unit and symbol).
- ↵ reluctance as the opposition to the establishment of magnetic flux.
- ↵ permeability (definition, symbol and unit).
- ↵ difference for magnetic and non-magnetic materials in regards to reluctance and permeability.
- ↵ calculation of m.m.f., flux or reluctance given any two values.
- ↵ flux density (definition, symbol, unit and calculation).
- ↵ magnetising force (definition, symbol, unit and calculation).
- ↵ common magnetic circuit types.
- ↵ effect of an air gap in a magnetic circuit.
- ↵ terms “magnetic leakage” and “magnetic fringing”.

#### T4 Electromagnetic induction encompassing:

- ↵ principle of electromagnetic induction (Faraday’s law of electromagnetic induction).
- ↵ applying “Fleming’s right hand rule” to a current a carrying conductor under the influence of a magnetic field.
- ↵ calculation of induced e.m.f. in a conductor given the conductor length, flux density and velocity of the conductor.
- ↵ calculation of induced e.m.f. in a coil given the number of turns in a coil and the rate of change of flux.
- ↵ calculation of force on a conductor given the flux density of the magnetic field, length of the conductor and the current being carried by the conductor.
- ↵ Lenz’s law
- ↵ applications of electromagnetic induction

#### T5 Inductance encompassing:

- ↵ construction of an inductor, including a bifilar winding inductor.
- ↵ Australian Standard circuit diagram symbol for the four types of inductor.
- ↵ effect of physical parameters on the inductance of an inductor.
- ↵ common types of inductor cores.
- ↵ applications of the different types of inductors.
- ↵ definition of terms self induction, inductance and mutual inductance.
- ↵ calculation of value of self induced e.m.f. in a coil.
- ↵ mutual induction occurs between two coils.
- ↵ graphical relationship between load voltage, current and self induced e.m.f. in a single d.c. circuit having inductance.
- ↵ practical applications for the effects of self and mutual induction.
- ↵ undesirable effects of self and mutual induction.
- ↵ definition of term “time constant” and draw the characteristic curve as applied to a series circuit containing an inductor and a resistor. (LR circuit)Calculation of value of the time constant for an LR circuit given the values of the components.
- ↵ time constants required for the current in an LR circuit to reach its final value.
- ↵ determining of instantaneous values of voltage and current in an LR circuit using a universal time constant chart.

#### T6 Measurement Instruments encompassing:

- ↵ moving coil, moving iron, dynamometer meter movements and clamp testers.
- ↵ practical applications for moving coil, moving iron and dynamometer meter movements.
- ↵ Calculation of resistance of shunts and multipliers to extend the range of ammeters and voltmeters.
- ↵ factors to be considered in selecting meters for a particular application.
- ↵ safety category of meters and their associated applications.
- ↵ steps and procedures for the safe use, care and storage of electrical instruments.

## T7 Magnetic devices encompassing:

- ↯ construction, operation and applications of relays.
- ↯ construction, operation and applications of contactors.
- ↯ magnetic methods used to extinguish the arc between opening contacts.
- ↯ construction, operation and applications of Hall Effect devices.
- ↯ operation and applications of magnetostriction equipment.
- ↯ construction, operation and application of magnetic sensing devices.

## T8 Machine principles encompassing:

- ↯ basic operating principle of a generator.
- ↯ applying Fleming's right hand rule for generators.
- ↯ basic operating principle of a motor.

## applying Fleming's left hand rule for motors.

- calculation of force and torque developed by a motor.

## T9 Rotating machine construction, testing and maintenance encompassing:

- ↯ components of a d.c. machine.
- ↯ difference between a generator and a motor in terms of energy conversion.
- ↯ nameplate of a machine.
- ↯ using electrical equipment to make electrical measurements and comparison of readings with nameplate ratings.
- ↯ Identification of faults in a machine from electrical measurements.
- ↯ care and maintenance processes for rotating machines
- ↯ safety risks associated with using rotating machinery.

## T10 Generators encompassing:

- ↯ basic operation of a d.c generator.
- ↯ calculation of generated and terminal voltage of a d.c. shunt generator
- ↯ prime movers, energy sources and energy flow used to generate electricity.
- ↯ types of d.c. generators and their applications.
- ↯ methods of excitation used for d.c generators.
- ↯ equivalent circuit for a d.c. generator.
- ↯ importance of residual magnetism for a self excited generator.
- ↯ open circuit characteristics of d.c. generators.
- ↯ load characteristics of a d.c generator.
- ↯ reversing the polarity of a d.c. generator
- ↯ Connect and test a d.c generator on no-load and load
- ↯ Identify safety risks associated with using generators.

## T11 Motors encompassing:

- ↯ operation of a motor and its energy flow.
- ↯ effect of back e.m.f. in d.c. motors
- ↯ torque as the product of the force on the conductors and the radius of the armature/rotor.
- ↯ types of d.c. motors and their applications.
- ↯ circuit diagrams for the types of d.c. motors.
- ↯ equivalent circuit for the types of d.c. motors.

- ↗ calculation of power output of a motor.
- ↗ characteristics of the different types of d.c. motors.
- ↗ **connection and testing a d.c. shunt motor on no-load and load**
- ↗ reversing the direction of rotation of a d.c. motor.
- ↗ safety risks associated with using motors (include risks of series d.c. motors).

#### T12 Machine efficiency encompassing:

- ↗ losses that occur in a d.c machine.

methods used to determine the losses in a d.c. machine.

- calculation of losses and efficiency of a d.c machine.
- ↗ efficiency characteristic of a d.c. machine and the conditions for maximum efficiency.
- ↗ application of Minimum Energy Performance standards (MEPS).
- ↗ methods used to maintain high efficiency.

<b>EE112</b>	<b>Alternating Current Principle</b>
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This unit covers ascertaining correct operation of single and three phase a.c. circuits and solving circuit problems as they apply to servicing, fault finding, installation and compliance work functions. It encompasses safe working practices, multiphase circuit arrangements, issues related to protection, power factor and MEN systems and solutions to circuit problems derived from calculated and measured parameters.

#### **KS01-EG102A Alternating current power circuits**

Evidence shall show an understanding of alternating currents power circuits to an extent indicated by the following aspects:

##### T1 Alternating Current Quantities encompassing:

- ↗ sine, cosine and tangent ratios of a right angle triangle
- ↗ Pythagoras Theorem to a right angle triangle.
- ↗ use of the CRO to measure d.c. and a.c. voltage levels
- ↗ sinusoidal voltage generated by a single turn coil rotated in a uniform magnetic fields

terms 'period', 'maximum value', 'peak-to-peak value', 'instantaneous value', 'average value', 'root-mean-square (r.m.s.) value', in relation to a sinusoidal waveform.

- ↗ calculation of the instantaneous value of induced voltage of a generated sinusoidal waveform.
- ↗ measurement of instantaneous, peak, peak-to-peak values and the period of a sinusoidal waveform.
- ↗ calculation of root-mean-square (r.m.s.) value and frequency of a sinusoidal waveform from values of peak voltage and period.

##### T2 Phasors Diagrams encompassing:

- ↗ purpose of phasor diagrams
- ↗ 'in-phase', 'out-of-phase', 'phase angle' lead' and 'lag'.

- phase angle between two or more alternating quantities from a given sinusoidal waveform diagram.
- convention for representing voltage, current and the reference quantity in a phasor diagram.
- drawing phasor diagrams to show the relationship between two or more a.c. values of voltage and/or current.
- determination of phase relationship between two or more sinusoidal waveforms from a given diagram and measurements.

### T3 Single Element a.c. circuits encompassing:

- setting up and connect a single-source resistive a.c. circuit and take voltage and current measurements to determine the resistance
- determining the voltage, current resistances from measure of given values of any two of these quantities.
- relationship between voltage drops and current in resistive a.c. circuit
- applications of resistive a.c. circuits
- defining 'inductive reactance'.
- calculation of inductive reactance for a given inductor and the relationship between inductive reactance and frequency.
- applying Ohm's Law to determine voltage, current of inductive reactance in a purely inductive a.c. circuit given any two to these quantities.
- applications of inductive a.c. circuits.
- calculation of capacitive reactance
- applying Ohm's Law to determine voltage, current or capacitive reactance in a purely capacitive a.c. circuit given any two of the quantities.
- applications of capacitive a.c. circuits

### T4 RC and RL Series a.c. circuits encompassing:

- impedance and impedance triangle.
- determining the impedance, current and voltages for a series RC circuit given the resistance, capacitance and supply voltage.
- drawing and labelling the impedance triangle for a series RC circuit

### drawing phasor diagrams for a series RC circuit

- AS/NZS 3000 requirements for the installation of capacitors.
- examples of capacitive components in power circuits and systems and the effect on the phase relationship between voltage and current.
- determining the impedance, current and voltages for a series RL circuit given the resistance, inductance and supply voltage.
- drawing and labelling the impedance triangle for a series RL circuit
- drawing the equivalent circuit of a practical inductor
- Draw phasor diagrams for a series RL circuit.
- examples of inductive components in power circuits and systems and describe their effect on the phase relationship between voltage and current

### T5 RLC Series a.c. circuits encompassing:

- measuring component voltages in a series RLC circuit and using a phasor diagram to determine the supply voltage and phase angle between circuit voltage and circuit current.
- determining the impedance, current and voltages for a series RLC circuit given resistance, inductance, capacitance and supply voltage.
- drawing and labelling the impedance triangle for a series RLC circuit.
- calculation of total impedance for a series RLC circuit.
- calculation of voltage drop for cables using the values for reactance and a.c. resistance from AS/NZS 3008.
- comparison of current limiting characteristics of inductors and resistors.
- practical examples of RLC series circuits

#### T6 Parallel a.c. Circuits encompassing:

- ↯ determining the branch currents of a parallel circuit that contain RL, RC or LC in two branches.
- ↯ using a phasor diagram to determine the total circuit current and phase angle in parallel RL, RC or LC circuits.
- ↯ determining the total circuit impedance of parallel RL, RC or LC circuits.
- ↯ measuring the branch currents in a parallel RLC circuit and use a phasor diagram to determine the total current and phase angle between circuit voltage and circuit current.
- ↯ determining the branch impedances, branch currents and phase angles voltages for a parallel RLC circuit given resistance, inductance, capacitance and supply voltage.
- ↯ calculation of impedance for a parallel RLC circuit.
- ↯ practical examples of parallel circuits.

#### T7 Power in an a.c. circuit encompassing:

- ↯ difference between true power, apparent power and reactive power and the units in which these quantities are measured.
- ↯ drawing the power triangle to show the relationships between true power, apparent power and reactive power
- ↯ defining the term "power factor" and phase angle.

methods used to measure single phase power, energy and demand.

#### T8 Power Factor Improvement encompassing:

- ↯ effects of low power factor.
- ↯ requirements for power factor improvement.
- ↯ methods used to improve low power factor of an installation.
- ↯ local supply authority and AS/NZS 3000 wiring rules requirements regarding the power factor of an installation and power factor improvement equipment.
- ↯ methods used to measure single phase power factor.
- ↯ using manufacturers catalogues to select power factor equipment for a particular installation

#### T9 Harmonics and Resonance Effect in a.c. Systems encompassing:

- ↯ term "harmonic" in relation to the sinusoidal waveform of an a.c. power system.
- ↯ sources in a.c. systems that produce harmonics.
- ↯ problems that may arise in a.c. circuits as a result of harmonics and how these are overcome.
- ↯ methods and test equipment used to test for harmonics
- ↯ methods used to reduce harmonics in a.c. power system
- ↯ conditions in a series a.c. circuit that produce resonance.
- ↯ dangers of series resonance circuits
- ↯ conditions in a parallel a.c. circuit that produce resonance.
- ↯ dangers of parallel resonance circuits
- ↯ AS/NZS3000 and the local supply authority requirements concerning harmonics and resonance effect in a.c. power systems.

#### T10 Three Phase Systems encompassing:

- ↯ features of a multiphase system.
- ↯ comparison of voltages generated by single and multiphase alternators.



- reasons for the adoption of three phases for power systems.
- how three phases is generated in a single alternator.
- Calculation of r.m.s. value of voltage generated in each phase given the maximum value.
- relationship between the phase voltages generated in a three phase alternator and the conventions for identifying each.
- term "phase sequence" (also, referred to as "phase rotation").
- determining the phase sequence of a three phase supply

#### T11 Three phase star-connections encompassing:

- connecting a three phase star-connection load.
- phase relationship between line and phase voltages and line and phase currents of a star-connected system.
- determining the r.m.s. value of line and phase voltage given any one of these quantities.

#### determining the r.m.s. value of line and phase current given any one of these quantities.

- terms "balanced load" and "unbalanced load".
- effect of a reversed phase winding of a star connected alternator.
- example of balanced and unbalanced loads in typical power systems.

#### T12 Three phase four wire systems encompassing:

- purpose of the neutral conductor in a three phase four wire systems.
- determining the effects of an high impedance in the neutral conductor of a three phase four wire system supplying an unbalanced load where MEN earthing is employed.
- determining the value and phase relationship of neutral current in an unbalanced three phase four wire systems given line currents and power factors.
- AS/NZS 3000 requirements regarding neutral conductors.
- AS/NZS 3008.1.1 method for determining voltage drop in unbalanced three phase circuits

#### T13 Three phase delta-connections and Interconnected systems encompassing:

- connecting three phase delta loads.
- phase relationship between line and phase voltages and line and phase currents of a delta-connected system.
- determining the r.m.s. value of line and phase voltage given any one of these quantities.
- determining the r.m.s. value of line and phase current given any one of these quantities.
- limitations and uses of open delta connections
- effect of a reversed phase winding of a delta connected transformer
- example of loads in typical power systems.
- drawing the typical combinations of three phase interconnected systems using star-connections and a delta-connection.
- relationship between line and phase voltages and line and phase currents in the typical interconnected systems using star-connections and delta-connections.

#### T14 Energy and power requirements of a.c. systems encompassing:

- purposes for measuring power, energy, power factor and maximum demand of a.c. power systems and loads.
- difference between true power, apparent power and reactive power and the units in which these quantities are measured in a three phase system.
- drawing the power triangle to show the relationships between true power, apparent power and reactive power in a three phase system.
- methods used to measure three phase power , energy, power factor and demand.
- determining how the power factor of a three phase installation can be improved.

– using manufacturers catalogues to select measurement equipment for a particular installation

#### T15 Fault Loop Impedance encompassing:

- term fault loop impedance of a a.c. power system
- determining fault loop impedance using resistance and reactance values from AS/NZS

#### 3008.1.1

- measuring fault loop impedance of typical circuits
- procedures for testing fault loop impedance

EE113	Electrical Fundamental
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This unit covers the application of calculations required to solve electrotechnical engineering problems. It encompasses working safely, applying problem solving techniques, using a range of mathematical processes and techniques to providing solutions to electrotechnical problems, and justifying such solutions.

Note.

Typical electrotechnical problems are those encountered in meeting requirements in meeting performance requirements and compliance standards, revising systems operating parameters and dealing with system malfunctions

This unit covers ascertaining correct operation of single and three phase machines and solving machine problems as they apply to servicing, fault finding, installation and compliance work functions. It encompasses safe working practices, machine connections circuit arrangements, issues related to machine operation, characteristics and protection and solutions to machine problems derived from calculated and measured parameters.

Evidence shall show an understanding of electrotechnical principles to an extent indicated by the following aspects:

#### T1 Resistance encompassing:

- relationship between voltage, current and resistance and the power dissipated in a circuit
- value of voltage, current and resistance in a circuit given any two of these quantities
- the factors of length, cross-sectional area and material effect the resistance of conductors
- effects of temperature change on the resistance of various conducting materials
- features of fixed and variable resistor types and typical applications
- characteristics of temperature, voltage and light dependent resistors and typical applications of each

#### T2 Series circuits encompassing:

- measurement of resistance, voltage and current values in a single source series circuit
- the voltage, current, resistances or power dissipated from measured or given values of any two of these quantities
- relationship between the voltage drops around a circuit and the applied voltage

#### T3 Parallel circuits encompassing:

- ↯ measurement of resistance, voltage and current values in a single-source parallel circuit
- ↯ the voltage, current, resistance or power dissipated from measured or given values of any of these quantities
- ↯ relationship between currents entering a junction and currents leaving a junction

#### T4 Series/parallel circuits encompassing:

- ↯ measurement of resistance, voltage and current values in a single-source series / parallel circuit
- ↯ the voltage, current, resistances or power dissipated from measured or given values of any two of these quantities

#### T5 Measurement of electrical quantities encompassing:

- ↯ operating characteristics of analogue and digital meters
- ↯ selecting an appropriate meter in terms of units to be measured, range, loading effect and accuracy for a given application

#### T6 Capacitance/Capacitors encompassing:

- ↯ definition of capacitance and explain how a capacitor is charged
- ↯ the units by which capacitance is measured
- ↯ relationship between capacitance, voltage and charge
- ↯ behaviour of a series d.c. circuit containing resistance and capacitance components
- ↯ factors which determine the capacitance of a capacitor and explain how these factors are present in all circuits to some extent

#### T7 Magnetism and electromagnetism encompassing:

- ↯ field patterns around given permanent magnets
- ↯ magnetic field patterns around a straight current carrying conductor and a solenoid
- ↯ direction in which the magnetic field around a straight current carrying conductor

#### T8 Electromagnetic induction encompassing:

- ↯ factors required to induce an emf in a conductor

#### T9 Sinusoidal alternating voltage and current encompassing:

- ↯ how a sinusoidal voltage is generated in a single turn coil rotated in a uniform magnetic field
- ↯ definition of the terms ‘period’, ‘maximum value’, ‘peak-to-peak value’, ‘instantaneous value’, ‘average value’ and ‘root-mean-square (r.m.s.) value’ in relation to a sinusoidal waveform
- ↯ instantaneous value of induced voltage of a generated sinusoidal waveform
- ↯ root-mean-square (r.m.s.) value and frequency of a sinusoidal waveform from values of peak voltage and period

#### T10 Test equipment encompassing:

- ↯ operating principles of a CRO including block diagram of functional areas
- ↯ set up, calibration and use of an oscilloscope to measure d.c and a.c. voltages and frequency
- ↯ measurement of the instantaneous, peak, peak-to-peak values and the period of sinusoidal and other common waveforms provided by a signal generator
- ↯ calibration and limitation of CRO probes
- ↯ use of signal generator as a voltage source

#### T11 Phase relationships in a.c. circuits encompassing:

- phasor representation of graphical waveforms
- 'in-phase', 'out-of-phase', 'phase angle', 'lead', and 'lag'
- convention for representing voltage, current and the reference quantity in a phasor diagram
- phasor diagrams to show the relationship between two or more a.c. values of voltage and/or current

T12 Single-source resistive a.c. circuits of various frequencies encompassing:

single-source a.c. circuit and taking resistance, voltage and current measurements

- voltage, current, resistances or power dissipated from measured or given values of any two of these quantities

T13 Inductance in a.c. circuits encompassing:

- concept of inductance, self-inductance and mutual inductance. (in terms of storage of magnetic energy)
- factors affecting inductance and how the unit of inductance is derived
- value of induced voltage in a given circuit
- how a series d.c. circuit containing resistance and inductance behaves
- 'inductive reactance'
- inductive reactance of a given inductor and show the relationship between inductive reactance and frequency
- applying Ohm's law to determine voltage, current or inductive reactance in a purely inductive a.c. circuit given any two of these quantities
- examples of inductive components in circuits and systems and describe their effect on the phase relationship between voltage and current

T14 Capacitance in a.c. circuits encompassing:

- capacitive reactance of a given capacitor and the relationship between capacitive reactance and frequency
- applying Ohm's law to determine voltage, current or capacitive reactance in a purely capacitive a.c. circuit given any two of these quantities
- examples of capacitive components in electronic circuits and systems and describe their effect on the phase relationship between voltage and current

T15 Impedance in a.c. circuits encompassing:

- definition of 'impedance'
- impedance of series, parallel and series-parallel circuits and draw diagrams showing the relationship between resistive, inductive and capacitive components
- single-source a.c. circuit with resistance, voltage and current measurements
- determination of the voltage, current or impedance from measured or given values of any two of these quantities
- using phasor diagrams to solve problems and show the relationship between voltages and currents in a.c. circuits

EE114	Electrical Power Principle
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### KS01-EG006A Single and three-phase transformers

Evidence shall show an understanding of single and three phase transformers to an extent indicated by the following aspects:

T1 Transformer construction encompassing:

- ↵ types of lamination style and core construction used in single-phase, three phase, double wound, auto transformers and instrument transformers.
- ↵ identification of different winding styles/types used in transformers.
- ↵ methods used to insulate low and high voltage transformers.
- ↵ construction of transformer tanks for distribution transformers.
- ↵ transformer auxiliary equipment. (Bushings, surge-diverters, tap-changers, hot oil & winding indicators, breather, Buchholz relay and conservator).
- ↵ function of transformer auxiliary equipment.
- ↵ types of information stated on transformer nameplates.
- ↵ application of transformers.
- ↵ performing basic insulation resistance, continuity and winding identification tests.

## T2 Transformer operation encompassing:

- ↵ principles of mutual induction of a transformer.
- ↵ factors that determine the induced voltage in a transformer winding.
- ↵ determining the value of a transformers secondary voltage and current given one winding's electrical details and turns ratio.
- ↵ identification of voltage and current components of a phasor diagram for a transformer on no-load.
- ↵ principles of power transferred from the primary to secondary when a load is connected using a phasor diagram neglecting impedance drops.
- ↵ selecting transformers for specific application/s.
- ↵ safety features specified in AS/NZS3000 with respect to transformers and isolating transformers.

## T3 Transformer losses, efficiency and cooling encompassing:

- ↵ power losses which occur in a transformer.
- ↵ tests which allow the power losses of a transformer to be determine.
- ↵ determination of transformer losses and efficiency using test results.

## relationship between transformer cooling and rating.

- ↵ methods used for natural and forced cooling of transformers.
- ↵ properties of transformer oil.
- ↵ tests conducted on transformer oil.

## T4 Transformer voltage regulation and percent impedance encompassing:

- ↵ voltage regulation as applicable to a transformer.
- ↵ reasons for voltage variation in the output of a transformer.
- ↵ determine the voltage regulation of a transformer from voltage and percentage impedance values.
- ↵ percentage impedance as applied to transformers.
- ↵ determine the percent impedance by using test results.
- ↵ determine percent impedance of a transformer by calculation.

## T5 Parallel operation of transformers and transformer auxiliary equipment encompassing:

- ↵ determine polarity markings for an unidentified single phase double wound transformer.
- ↵ need for parallel operation of transformers.
- ↵ conditions/restrictions required before two transformers can be connected in parallel.
- ↵ connecting transformers in parallel to supply a single load (loading on transformers operating in parallel).
- ↵ the consequences/effect of an incorrect connection.

T6 Auto-transformers and instrument transformers encompassing:

- ↯ identification of auto-transformers, voltage transformers and current transformers from their winding diagrams.
- ↯ determining voltage and current in the windings of an auto-transformer by calculation.
- ↯ advantages and disadvantages of an auto-transformer.
- ↯ AS/NZS3000 requirements with respect to transformers.
- ↯ construction of voltage transformers.
- ↯ ratings of voltage transformers.
- ↯ construction of current transformers.
- ↯ ratings of current transformers.
- ↯ precautionary measures taken to connect and disconnect instrument transformers.
- ↯ connection diagrams for instrument transformers.
- ↯ applications for auto-transformers and instrument transformers.

EE115

Basic Analogue & Digital Electronics

## Part 1 Analogue

This competency standard unit covers developing engineering solutions to solve problems with analogue electronics. It encompasses working safely, apply extensive knowledge of analogue electronics circuit and device operation and their application, gathering and analysing data, applying problem solving techniques, developing and documenting solutions and alternatives.

Note.

Typical analogue electronic problems are those encountered in meeting performance requirements and compliance standards, revising analogue electronics operating parameters and dealing with analogue electronic malfunctions

### **KS01-EH145A Analogue electronic circuits and systems**

Evidence shall show an understanding of analogue electronic circuits, applying safe working practices and relevant Standards, Codes and Regulations to an extent indicated by the following aspects:

Single-stage analogue electronics

T1. Understanding of differential amplifiers using discrete components (transistors) of suitable characteristics to meet system objective

- ↯ differential gain, common mode rejection ratio and the required CMRR
- ↯ variable gain input stage

T2. Operational amplifier circuits

- ↯ use of d.c. offset
- ↯ operation of single-supply inverting and non-inverting amplifiers employing DC offset bias at the input and blocking capacitors
- ↯ operation of a high input resistance unity gain
- ↯ areas of use for single-supply amplifiers.

T3. Comparator circuits (open loop, limited swing and hysteresis) using operational amplifiers:

- ↯ ideal op-amp comparator
- ↯ typical uses of the comparator.

- comparators with limited (i) negative swing and (ii) both positive negative swing
- hysteresis comparator with positive resistor divider feedback and calculate the input switching voltages.
- desirable properties of an operational amplifier for use as comparator and the characteristics of comparator op amps.

#### T4. Amplifiers with given piecewise linear transfer characteristics

#### T5. Operation and building precision of half-wave and fullwave rectifiers

- precision two-diode half-wave and full-wave rectifier
- typical applications of precision rectifiers.

#### T6. Oscillators

- Operation of oscillators
- Purpose of oscillators
- Conditions for sustained oscillation
- Operation of phase shift oscillators
- The operation and characteristics of a Colpitts oscillator
- Conditions that cause instability in amplifier circuits

#### Advanced power amplifiers

- Analysing the performance of power amplifiers
- Minimum power, voltage and current rating of an output transistor.
- Aspects of heat transfer related to heat sinking.
- Common forms of distortion encountered in power amplifiers. (eg. Total harmonic distortion)
- Techniques for overcoming common forms of distortion.

#### T9. (is the number correct?)Classes of power amplifiers and indicate typical maximum efficiencies for each class

- conduction, angle, output power and efficiency of a power amp.
- typical and/or maximum efficiencies of each class of power Amp.
- d.c and/or a.c load line,
- output power and efficiency of a large signal amplifier

#### T10. Operation of each class and type of power amplifier circuit

- load line operation.
- Class A – direct, RC, transformer coupled. Class B – Complementary symmetry, drivers, single supply/duel supply. Class C and Class D.
- measure the characteristics of a fully integrated operational power Amplifiers.

#### T11. Active filters

- frequency response of low-pass, high-pass, low-Q band-pass, high-Q bandpass, notch and all-pass filters and define pass-band, stop-band and rate of roll-off.
- main features in the amplitude and phase plots of Butterworth, Chebyshev, Cauer-Elliptic and Bessel filter responses.
- pros and cons of active and passive filters.
- non-unity gain Sallen-Key low-pass filter.
- Types of active filters available in IC form - Variable filter, Switched Capacitor Filters and digital (sampled data) filters.
- Low-Q (i.e. cascade of lowpass and high-pass) and/or narrow bandpass filters

#### Part 2 Digital

This unit covers determining correct operation of digital sub-systems. It encompasses working safely, problem solving procedures, including the use of voltage, current and resistance measuring devices, providing solutions derived from measurements and calculations to predictable problems in digital components circuits.

### **KS01-EH112A Digital sub-system**

Evidence shall show an understanding of digital sub-system troubleshooting, applying safe working practices and relevant Standards, Codes and Regulations to an extent indicated by the following aspects:

#### **T1. Analogue and digital signals**

- ↯ Comparison between analogue and digital signals
- ↯ Observing digital and analogue waveforms

#### **T2. Numbering systems**

- ↯ The binary number system
- ↯ The hexadecimal number system
- ↯ Binary addition and subtraction

#### **T3. Numbering systems - conversions**

- ↯ Conversion between numbering systems
- ↯ Binary Coded Decimal (BCD)
- ↯ Gray code
- ↯ The American Standard Code for Information Interchange (ASCII)
- ↯ Unicode

#### **T4. Combinational logic circuits**

- ↯ Precautions when handling electronic devices due to electrostatic discharge (ESD)
- ↯ Truth tables
- ↯ Basic operation and characteristics of logic gates

#### **Logic probes**

- Verification of operation of logic circuits

#### **T5. Digital displays**

- ↯ Seven segment LED displays
- ↯ Drive requirements
- ↯ Current limiting
- ↯ Multiplexed displays
- ↯ Seven segment Decoders
- ↯ Liquid Crystal Displays (LCD)
- ↯ Emerging display technologies
- ↯ Verification of seven segment display circuit
- ↯ Interfacing with logic circuits

#### **T6. Digital subsystem building blocks**

- ↯ Encoders and Decoders



- ↗ Multiplexers and Demultiplexers
- ↗ Timing diagrams
- ↗ Flip flops, Latches and registers
- ↗ Ripple counters
- ↗ MOD counters
- ↗ Synchronous counters Multi-vibrators
- ↗ Clocks
- ↗ Verification and operation (eg. PLDs, ICs)

## T7. Digital fault finding

- ↗ General fault finding principles
- ↗ Common digital faults
- ↗ Digital test equipment
- ↗ Digital test equipment (eg. Logic probes, Digital Oscilloscopes, digital trainers)

## T8. Logic families and specifications

- ↗ Input and output voltage characteristics
- ↗ Comparison of logic families
- ↗ Unit load
- ↗ Noise margin
- ↗ Interfacing different logic families
- ↗ Tri-state logic devices

Overview and applications of A/D converter and D/A converter

EE116	Process Control System
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This unit covers solving problems in industrial control systems. The unit encompasses safe working practices, interpreting process and circuit diagrams, applying knowledge of industry controls to problem solving techniques, safety and functional testing and completing the necessary documentation.

Note.

Typical basic industrial control system problems are those encountered in meeting performance requirements and compliance standards, revising control operating parameters and dealing with control malfunctions.

### KS01-EI120A

### Industrial control systems

Evidence shall show an understanding of industrial control systems to an extent indicated by the following aspects:

Control amplifiers encompassing:

- ↗ Introduction
- ↗ Amplifier Operation
- ↗ Operational Amplifiers
- ↗ Operational Amplifier Configurations

Industrial transducers encompassing:

- └ Introduction
- └ SI Units
- └ Forms of Energy
- └ Transducer Terminology
- └ Temperature Measurement
- └ Force Measurement
- └ Speed Measurement

## SKILLS AND KNOWLEDGE

- └ Positional Measurement

Industrial final control elements encompassing:

- └ Introduction
- └ Electromagnetic Devices
- └ Valves
- └ Solid State Switching Devices

Industrial control systems encompassing:

- └ Automatic Control
- └ Open Loop Control
- └ Closed Loop Control
- └ Control System Terminology
- └ Control System Evaluation
- └ Two Position Control
- └ Proportional Control (P)
- └ Proportional + Integral Control (P+I)
- └ Proportional + Derivative Control (P+D)
- └ Proportional + Integral + Derivative Control (P+I+D)

Industrial control loops and control signals encompassing:

- └ Introduction
- └ Control Loops

- ⌞ Converters (D to A and A to D)
- ⌞ Multiplexing

EE117	Solar Electrical System
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This unit covers providing known solutions to predictable problems in photovoltaic energy apparatus and systems operated at ELV and LV. It encompasses working safely, problem solving procedures, including the use of basic voltage, current and resistance measuring devices, providing known solutions to predictable circuit problems.

### KS01-EK125A

### Photovoltaic power systems

Evidence shall show an understanding of photovoltaic power systems to an extent indicated by the following aspects:

T1 Daily irradiation encompassing:

- ⌞ definition of the terms: declination angle, reflectance, sunshine hours, extraterrestrial irradiation, Latitude, direct and diffuse radiation, azimuth and altitude angles, radiance, solar window, tilt angle, solstice, equinox
- ⌞ units and symbols for irradiation and irradiance
- ⌞ interpretation of solar radiation data tables and contour maps.
- ⌞ measuring solar irradiance with a solarimeter.

how radiation varies throughout the year on the surface of a fixed collector.

- ⌞ determining, using field measurements and a sun path diagram, the times and dates when a PV array will be shaded by obstacles at a particular site.
- ⌞ calculation of the daily average irradiation on a horizontal plane given extraterrestrial irradiation, location constants and sunshine hour data.
- ⌞ calculation of the monthly mean daily irradiation falling on a PV array for each month of the year, adjusted for the effects of shading, using irradiance and irradiation data tables and a sun path diagram and/or appropriate software.
- ⌞ selection of an appropriate tilt angle for fixed and seasonally-adjustable PV arrays at an given latitude

T2 Photovoltaic modules encompassing:

- ⌞ definition of the terms: cell, module, array, mono-crystalline, poly-crystalline, amorphous, band gap energy, semi-conductor

- diagram of a basic crystalline silicon PV cell, showing its physical structure, with at least five major features labelled
- major steps in the production of PV modules based on bulk silicon cells, in comparison with the production of thin film PV modules.
- basic physical principles of PV cell operation for the main types of commercially available PV modules.
- efficiency, spectral response, cost and typical applications of the main types of commercially available PV modules.
- new photovoltaic technologies currently being developed towards commercialisation, and their major features.
- mechanical and electrical features necessary for the long life of a PV module under a wide range of operating conditions.

### T3 Module characteristics encompassing:

- definition of the terms: I-V curve, fill factor, operating point, maximum power point (MPP), cell temperature co-efficient, nominal operating cell temperature (NOCT), current, voltage and power output co-efficient.
- equivalent circuit for a PV cell, labelling each of the elements and the polarity of the terminals.
- family of I-V curves for a PV module, labelling major points and showing the effects of variation in irradiance and variation in cell temperature.

– ratings of a PV module from manufacturer's information or nameplate data.

- determination of the operating point of a PV module with a resistive load, a constant voltage source or any other load with known I-V characteristics, using the load line method.
- configuration of a typical PV array, including the function, placement and ratings of blocking and bypass diodes.
- the effect of partial shading of a PV module or array, the impact of bypass diodes and the significance of their configuration on output current in typical operating conditions.
- calculation of the power at MPP, and the power under typical battery charging conditions, of a PV module, given irradiance and ambient air temperature.
- calculation of the daily energy output of a PV array in accordance with AS 4509.2, and by using "rule of thumb" de-rating factors.

- the scope and content of Australian or international standards relevant to the performance of PV modules.
- the electrical characteristics of a PV module according to relevant Australian or International standards, using an outdoor test method.

EE118	Electrical Energy Supply System
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#### 2.6.21

##### a) Generation

primary energy sources

power stations

power station output

acts and legislation relating to generation

renewable energy sources and techniques

##### b) Transmission

system requirements

principal components of a power system

voltage levels

grid systems

acts/legislation relating to transmission

future trends

##### c) Distribution

high voltage distribution systems

medium/low voltage distribution systems

radial feeders

parallel feeders

ring main feeders

acts/legislation relating to distribution

##### d) Substations

purpose

location

layout

##### e) Overhead and underground systems

- relative merits
- applications
- planning
- installation

f) Power distribution system electrical characteristics  
transmission and distribution systems  
inductance, capacitance and resistance

g) Voltage problems in a power distribution system  
low voltage  
unbalanced voltages  
voltage rises

h) Voltage regulation  
autotransformers with OLTC  
transformers with OLTC  
static capacitors  
load control

i) Control of OLTC  
regulation relays  
control circuits  
line drop compensation

j) Power distribution system faults  
type/classification of fault  
typical causes/effects of faults  
three-phase symmetrical fault levels  
fault level limitation

k) Voltage surges in a power distribution system  
lightning surges  
switching surges  
typical surge levels  
surge impedance, typical values  
significance of the system surge impedance.

l) Metering and metered quantities  
purpose

- energy
- maximum demand
- accuracy classes for metering systems

- m) Energy and demand meters
  - construction
  - operation
  - adjustments
  - testing

- n) Metering circuits
  - direct metering
  - instrument transformer metering

- o) Electronic metering systems and recording meters
  - types
  - applications
  - connections

- p) Load control
  - purpose
  - methods

.6.22.1

- a) Protection fundamentals encompassing:
  - purpose of protection
  - features of a protection scheme

- b) Instrument transformers for protection encompassing:
  - Operating principles
  - Applications of current transformers
  - Applications of voltage transformers

- c) Feeder protection encompassing:
  - fuse protection
  - overcurrent & earth fault
  - sensitive earth fault
  - unit schemes
  - distance protection
  - trip/close sequences for feeders

recloser/sectionalizer systems

d) Transformer protection encompassing:

overheating protection

overcurrent protection

restricted earth fault protection

differential protection

oil and gas devices

e) Busbar protection encompassing:

types of fault

requirements of busbar protection

system protection

frame-earth protection

f) Surge protection encompassing:

voltage surges (revision)

surge diverters

arcing horns

EE119	Electrical Risk Assessment
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This unit covers the mandatory requirements of persons in a supervisory role to implement and monitor an organisation's occupational health and safety policies, procedures and programs. It encompasses understanding an organisation's OHS obligations, providing safety information to staff, implementing and monitoring participative arrangements, safety procedures and training and maintaining safety records.

### **KS01-EE117A Energy sector Occupational Health and Safety, supervisory responsibilities**

Evidence shall show an understanding of OHS enterprise responsibilities to an extent indicated by the following aspects:

T1 Provisions of relevant occupational health and safety legislation

T2 Principles and practice of effective occupational health and safety management

T3 Workplace hazards, range and selection of control measures

T4 Organisational health and safety management systems and policies and procedures needed for legislative compliance

T5 Impact of characteristics and composition of the workforce on occupational health and safety management

T6 Relevance of occupational health and safety management to other organisational management policies, procedures and systems.

T7 Analysis of entire work environment and judge occupational health and safety interventions

T8 Analysis of relevant workplace data

T9 Ability to assess resources needed for risk control



This unit covers developing requirement to be incorporated into the writing of specifications for electrical engineering projects. It encompasses determining the safety requirements to be met, establishing client expectations, ensuring cost effective solutions are pursued and documenting design and technical requirements.

### **KS01-EE071B Electrical engineering specification development**

Evidence shall show an understanding of electrical engineering specification writing to an extent indicated by the following aspects:

#### **T1 Electrical engineering specifications encompassing:**

- ↯ Purpose and nature of specification
- ↯ Performance based specifications
- ↯ Prescriptive specifications
- ↯ Acceptable evidence of compliance
- ↯ Additional service required with the supply of equipment

#### **T2 Dealing with suppliers and manufacturer's encompassing:**

- ↯ Documenting specification
- ↯ Customer/client relations encompassing:
  - ↯ Importance of customer/client relations
  - ↯ Interpersonal skills that enhance customer/client
  - ↯ Dispute resolution
- ↯ Customer/client relations strategies

#### **T3 Using basic computers functions encompassing:**

- ↯ Starting up
- ↯ Selecting application
- ↯ Entering information
- ↯ Saving
- ↯ Printing

#### **T4 Research skills encompassing:**

- ↯ Terminology - Terminology used in a research workplace; Terminology used in research-specific literature and the like.
- ↯ Theory – why conduct research - The history of research; past research successes; past research failures; Research Protocols; Research practices and the like.
- ↯ The research environment - The research work environment; Standard research practices; Industrial, legal, ethical, political and market environment considerations; Legislation and regulation; Contractual obligations of all parties

and the like.

- ↯ Planning to conduct research - Concept development and/or research brief analysis; Research objectives; Research deliverables; Research project plan; Literature reviews; Methodology development, including; Experimental design, Technology selection, Information Management system selection and the like
- ↯ Clients - identifying client viewpoints and stake in project; Identifying client requirements and parameters; Determining research budgets, timelines, milestones and quality attributes with clients.
- ↯ Research, Development and Commercialisation - Research and Development goals versus Commercialisation goals and realities; Research and Development to inspire a commercialisation process

This unit covers solving problems with electronic aspects of single phase power control devices and circuits. The unit encompasses safe working practices, interpreting diagrams, applying knowledge of electronic power control devices and their application, using effective problem solving techniques, safety and functional testing and reporting work activities and outcomes.

Note.

Typical single phase electronic power control problems are those encountered in meeting performance requirements and compliance standards, revising control operating parameters and dealing with control malfunctions.

### KS01-EI148A

### Single phase electronic power control circuit

Evidence shall show an understanding of single phase electronic power control circuit to an extent indicated by the following aspects:

#### Introduction to Power Control

- └ Advantages and benefits of power control
- └ Need for power control and typical applications
- └ Power control methods
- └ Types of solid state switches
- └ Block diagram of a power converter
- └ Power control terminology

Modes of operation.

#### Single Phase Power Rectifiers

- └ Single Phase Rectifier Circuit Configurations
- └ Resistive/Inductive Loads
- └ Output Voltages/Waveforms
- └ Ripple Voltage/Frequency
- └ Peak Reverse Voltages
- └ Free Wheeling Diodes

#### Silicon Controlled Rectifiers (SCRs)

- └ Construction and Symbol
- └ Basic Operating Principles
- └ Characteristics

- Gate Requirements
- Commutation
- Electrical Ratings
- Testing SCRs
- Applications.

#### Triacs and Gate Turn Off (GTO) Thyristors

- Triac Construction and Symbol
- Triac Basic Operating Principles
- Triac Characteristics
- Triac Triggering Modes
- Triac Electrical Ratings
- Triac Testing
- GTO Construction and Symbol
- GTO Basic Operating Principles
- GTO Characteristics
- GTO Electrical Ratings
- Applications for Triac and GTOs

#### Power Transistors (BJTs)

- BJT Construction and Symbol
- BJT Basic Operating Principles
- BJT Characteristics
- BJT Electrical Ratings
- BJT Testing
- Applications for BJTs

#### Power Field Effect Transistors (FET)

- Types of FETs used for power control
- Power FETs Construction and Symbol
- FET Basic Operating Principles and Characteristics
- IGBT Basic Operating Principles and Characteristics
- Power FET Electrical Ratings

#### Power FET Testing

└ Applications for Power FETs

## Triggering Devices

Diac:

- └ construction and symbol
- └ operating principles
- └ breakover voltage.
- └ Unijunction transistors (UJT)
- └ construction and symbol
- └ operating principles
- └ intrinsic standoff ratio and peak point voltage

## Programmable Unijunction Transistors (PUTs)

- └ construction and symbol
- └ operating principles
- └ programmable standoff ratio
- └ peak point voltage

## Triggering Circuits

- └ R-C Time Constant Circuits
- └ Diac Trigger Circuit Operation
- └ UJT Relaxation Oscillator Circuit Operation
- └ PUT Relaxation Oscillator Circuit

## Half Wave Controlled Rectification

### Phase shift control

- └ Controlled rectifiers
- └ Controlled rectifier power output control
- └ Single Phase Half-Wave Controlled Rectifier
- └ Circuit configuration
- └ circuit operation
- └ waveforms

- load voltage
- applications and limitations
- Problems Associated with Phase Shift Control

#### Full Wave Controlled Bridge Rectification

- Single phase full-wave controlled bridge rectifier circuit
- Output voltage
- Output waveforms
- Applications and limitations
- Advantages and disadvantages

#### Fully Controlled Bridge Rectification

- Single phase fully controlled rectifier bridge circuit
- Output voltage
- Output waveforms
- Applications and limitations
- Advantages and disadvantages

#### Single-Phase a.c. Voltage Control

- Phase control of a.c. power
- Circuit configurations - half and full control circuits
- Triggering circuits
- Circuit performance and operation on resistive and inductive loads
- Output voltage and waveform, determination of output voltage using circuit characteristics
- Range of control with inductive loads
- Triggering problems associated with inductive loads.
- Applications and limitations

#### Zero Voltage Switching (ZVS)

- Operating principles
- Circuit configuration – including trigger circuits

#### Circuit operation and waveforms – resistive loads only

- Relationship between load power and conduction time

- Solid state relays; types and ratings
- Applications and limitations

#### Fault Finding of Power Control Circuits

- Fault finding procedures
- Typical faults – power and trigger circuits
- Characteristics displayed by common faults
- Comparison of test data with expected data (voltage/current waveforms)
- Location and replacement of faulty components

EE201	Engineering Mathematics
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This unit covers the application of computational processes to solve engineering problems. It encompasses working safely, applying problem solving techniques, using a range of mathematical processes, providing solutions to electrical/electronics engineering problems and justifying such solutions.

Note. Typical engineering problems are those encountered in meeting requirements in a design brief, meeting performance requirements and compliance standards, revising systems operating parameters and dealing with system malfunctions

#### KS01-EE126A Electrotechnology engineering maths

Evidence shall show an understanding of electrotechnology engineering maths to an extent indicated by the following aspects:

##### T1 Rational, irrational numbers and basic algebra

- simplification of expressions involving square roots and cube roots
- scientific and engineering notation
- evaluation of expressions using a calculator
- convert units of physical quantities using unity brackets
- substitute given values into formulae to find physical quantities
- manipulate algebraic expressions using mathematical operations in their correct order, the laws of indices, expansion of brackets and collecting like terms

##### T2 Algebraic manipulation

- Factorise algebraic expressions using common factors
- Factorise quadratic expressions using trial and error on the factors of the coefficients
- Simplify algebraic fractions using common denominators and cancelling
- Solve simple one variable equations including algebraic fractions
- Find the quotient and remainder given a linear divisor.
- Transpose formulae to find a required variable.

##### T3 Laws of indices

- Conversion between decimal notation, scientific notation and engineering notation
- Laws of indices: positive /negative values, multiplication/division, fractional values, index equals zero
- Logarithmic laws: multiply/divide
- solution of exponential equations using logarithms, substitution and solution of relevant formulae involving exponents or logarithms
- Graphs of exponential functions,  $10^x$  and  $e^x$  and the inverses  $\log_{10}(x)$  and  $\log_e(x)$  functions on log-linear graphs
- Convert numbers into scientific and engineering notation using the laws of indices

↵ Manipulate and simplify arithmetic and algebraic expressions using the laws of indices and logarithms

↵ Express logarithms as indices.

↵ Perform logarithmic operations.

↵ Determine logarithms and antilogarithms to base 10, using a scientific calculator.

↵ Determine logarithms and antilogarithms to base e, using a scientific calculator.

↵ Convert logarithmic values from base 10 to base e and vice versa.

↵ Sketch given functions on log-linear graphs

#### T4 Estimations, errors and approximations

↵ Errors in measurement

↵ Maximum probable error

↵ Show awareness of errors in measurement and of giving results in appropriate number of significant figures

↵ Use estimations and approximations to check the reasonableness of results.

#### T5 Plane figures – triangles and basic trigonometry

↵ Angles in a triangle

↵ Isosceles and equilateral triangles

↵ Congruent triangles

↵ Similar triangles

↵ Pythagoras' theorem

↵ Area of triangles

↵ Basic trigonometry functions

↵ Degrees, radians

↵ The ratios: sin, cos, tan, cosec, sec, cot.

↵ Inverse trig functions

↵ Sine and cosine rules

#### T6 Plane figures - quadrilaterals and circles

↵ Types and properties of quadrilaterals

↵ Areas and perimeters of regular quadrilaterals

↵ Lengths of arcs

↵ Angles in a circle - degrees

↵ Angles in a circle - radians

↵ Lengths of chord segments

↵ Tangents to circles

↵ Circumference and area of circles

↵ Names and characteristics of common polygons

#### T7 Graphs of Trigonometric functions

↵ Graph trigonometric functions and solve trigonometric equations.

↵ Simplify trigonometric expressions using trigonometric identities

↵ Convert angular measure in degrees to radians and vice versa

↵ Graph trigonometric functions including graphs of  $y = \sin x$  and  $y = \cos x$

↵ Using vocational applications of current or voltage as a function of time, consider changes in amplitude, consider changes in frequency.

↵ Examine relationships of frequency, period and angular velocity.

↵ Sketch graphs of the form  $f(t) = a \sin \phi t$  and  $f(t) = a \cos \phi t$ , where  $a$  is the peak voltage or current, and  $\phi$  is the angular velocity

↵ Solve graphically equations of the form  $f(t) = a \sin \phi t$  and  $f(t) = a \cos \phi t$

Show a positive or negative angle on the unit circle.

- Use symmetry properties to find trigonometric ratios for angles greater than  $\frac{\pi}{2}$ .
- Solve simple vocational problems relating period, frequency and angular velocity.

## T8 Graphs of linear functions

- ↯ The number plane
- ↯ Gradient and x and y intercepts of a straight line
- ↯ Equation of a straight line length and mid-point of a straight line segment
- ↯ Function notation

## T9 Simultaneous equations

- ↯ Graphical solutions
- ↯ Substitution
- ↯ Elimination
- ↯ Solve 2 linear simultaneous equations both algebraically and graphically.

## T10 Matrices

- ↯ Perform the basic operations on matrices up to  $3 \times 3$
- ↯ Manipulate matrix equations and expressions
- ↯ Recognise inverse and identity matrices up to  $3 \times 3$  and use to solve systems of linear equations.
- ↯ Find determinants up to  $3 \times 3$  and use to solve systems of linear equations.
- ↯ Solve problems involving more than two simultaneous equations.
- ↯ State the limitations of graphical methods of solution.
- ↯ Distinguish between a matrix and an array.
- ↯ Describe the null, diagonal and unit matrix
- ↯ Describe and identify a singular/non-singular matrix

## T11 Quadratic functions

- ↯ Graphs of quadratic functions represented by parabolas and the significance of the leading coefficient.
- ↯ Graph quadratic functions and solve quadratic equations.
- ↯ Sketch and interpret the graphs of quadratic functions showing the significance of the leading coefficient and the zeros
- ↯ Solve quadratic equations by factoring or using quadratic formula
- ↯ Solve simultaneously linear and quadratic equations algebraically and geometrically
- ↯ Interpret verbally formulated problems involving quadratic and linear equations and solve.

## T12 Exponential and logarithmic functions

- ↯ Transform non-linear functions (including exponential) to linear forms and plot data.
- ↯ Draw curves of best fit, interpolate data and estimate constants in suggested relationships.

Interpret verbally formulated problems involving growth and decay, and solve.

- Graph exponential and logarithmic functions and solve exponential and logarithmic equations.
- ↯ Sketch the graphs of simple exponential and logarithmic functions showing behaviour for large and small values

## T13 Vectors and Phasors

- ↯ The vector as an expression of magnitude and direction



↯ The vector sum of x and y values in terms of magnitude and direction

↯ Rectangular components of vectors in the form  $x = r \cos \theta$  and  $y = r \sin \theta$

↯ Rectangular-polar and polar-rectangular conversion

↯ Vector addition and subtraction

↯ Express rectangular components of vectors in the form  $x = r \cos \theta$  and  $y = r \sin \theta$

## T14 Complex numbers

↯ Definitions and notation of complex numbers

↯ Complex numbers as vectors on an Argand diagram

↯ laws of complex numbers and apply the laws in suitable calculations.

↯ Plot complex numbers on the Argand plane.

↯ Express vectors as complex numbers and perform suitable calculations.

↯ Calculate the conjugate of a complex number.

↯ Using a calculator for rectangular-polar and polar-rectangular conversions.

EE202	Electrical Circuits
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This unit covers determining correct operation of complex multiple path circuits and providing engineering solutions as they apply to various branches of electrotechnology work functions. It encompasses working safely, problem solving procedures, including using electrical measuring devices, applying appropriate circuit theorems and providing solutions derived from measurements and calculations and justification for such solutions.

## KS01-EE125A Circuit analysis

Evidence shall show an understanding of circuit analysis to an extent indicated by the following aspects:

T1 Voltage/Current Sources and Kirchhoff's Law for d.c. Linear Circuits encompassing:

↯ calculating the effect of the internal resistance on terminal voltage and current delivered for practical voltage sources and current sources

↯ calculating current and voltage in any d.c. network of up to two loops and three sources.

↯ Kirchhoff's Law using a circuit simulation program.

↯ function and operation of an electronics circuit simulation program.

↯ using electronics circuit simulation program.

T2 Superposition Principles for d.c. Linear Circuits encompassing:

↯ d.c. networks (two loops, three sources)

↯ using simulation programs

↯ calculating current and voltage in any d.c. network of up to two loops and three sources.

↯ Superposition theorem using a circuit simulation program.

T3 Mesh and Nodal Analysis for d.c. Linear Circuits encompassing:

↯ writing mesh equations for d.c. networks containing up to three loops.

↯ writing Nodal equations for d.c. networks containing up to three nodes.

↯ using mesh analysis to find currents in d.c. networks of up to two loops.

↯ using nodal analysis to find node voltage and branch currents in d.c. networks of up to two nodes using a circuit simulation program to confirm the results of Mesh analysis or Nodal analysis of d.c. networks.

T4 Thévenin's principles for d.c. Linear Circuits encompassing:

- ↯ calculating the effect of the internal resistance on terminal voltage and current delivered for practical voltage sources and current sources.
- ↯ calculating the Thévenin equivalent voltage and resistance for d.c. networks and determining the load current, voltage and power.
- ↯ converting the Thévenin equivalent circuit to a Norton equivalent circuit and vice versa.
- ↯ verifying the equivalence of Thévenin equivalent circuits by measurement.

#### T5 Norton's principles for d.c. linear circuits encompassing:

- ↯ calculating the effect of the internal resistance on terminal voltage and current delivered for practical voltage sources and current sources.
- ↯ calculating the Norton equivalent current and resistance for d.c. networks and determining the load current, voltage and power.
- ↯ converting the Thévenin equivalent circuit to a Norton equivalent circuit and vice versa.
- ↯ verifying the equivalence of Norton equivalent circuits by measurement.

#### T6 Phasors encompassing:

- ↯ time domain and frequency domain
- ↯ frequency, angular frequency and units of measurement
- ↯ defining rms and convert between time domain and rms phasor values for a sine wave.
- ↯ converting between angular frequency and frequency.
- ↯ using a calculator to convert between polar and rectangular forms of phasor.
- ↯ representing a.c. voltages on a phasor diagram.

#### T7 Complex Impedance encompassing:

- ↯ defining impedance, resistance and reactance.
- ↯ defining admittance, conductance and susceptance.
- ↯ converting between conductance to resistance.
- ↯ converting between susceptance and reactance.
- ↯ converting between impedance and admittance.
- ↯ sketching impedance and admittance diagrams.
- ↯ calculating two-component series equivalent circuits and two-component parallel equivalent circuits and convert between these forms.

#### T8 Series and parallel a.c. linear circuits encompassing:

- ↯ Kirchhoff's Laws
- ↯ series equivalent impedance
- ↯ parallel equivalent impedance
- ↯ voltage divider and current divider rules
- ↯ calculating and measuring voltage and currents in a series a.c. circuit and draw the phasor diagram.

calculating and measuring currents in a parallel a.c. circuit and draw the phasor diagram.

· calculating and measuring voltage and currents in a series/parallel a.c. circuit and draw the phasor diagram.

#### T9 Superposition principles and Kirchhoff's Laws applied to a.c. linear circuits encompassing:

- ↯ calculating current and voltage in any a.c. network of up to two loops and two sources.
- ↯ using circuit simulation programs to demonstrate the superposition theorem.
- ↯ function and operation of an electronics circuit simulation program.
- ↯ entering given circuit specifications into an electronic circuit program.
- ↯ setting the circuit simulation program operation parameters including input and output values, ranges and graduation.
- ↯ producing hardcopies of the circuit and analyse results.

T10 Mesh and Nodal analysis for a.c. linear circuits encompassing:

- ↯ Mesh analysis
- ↯ Node voltages and nodal analysis
- ↯ matrix representation
- ↯ method of determinants
- ↯ writing mesh equations for a.c. networks containing up to three loops.
- ↯ writing nodal equations for a.c. networks containing up to three nodes.
- ↯ using mesh analysis to find currents in a.c. networks of up to two loops.
- ↯ using nodal analysis to find node voltage and branch currents in a.c. networks of up to two nodes.
- ↯ using a circuit simulation program to confirm the results of mesh analysis or nodal analysis of a.c. networks.

T11 Thévenin and Norton theorems applied to a.c. linear circuits encompassing:

- ↯ calculating the effect of the internal resistance on terminal voltage and current delivered for practical voltage sources and current sources.
- ↯ calculating the Thévenin equivalent voltage and impedance for a.c. networks and determining the load current, voltage and power.
- ↯ calculating the Norton equivalent current and impedance for a.c. networks and determining the load current, voltage and power.
- ↯ converting the Thévenin equivalent circuit to a Norton equivalent circuit and vice versa.
- ↯ verifying the equivalence of Thévenin and Norton equivalent circuits by measurement.

T12 Star-delta conversions encompassing:

- ↯ Star connections
- ↯ Star-delta transformation formula equations
- ↯ selection of appropriate conversion
- ↯ calculating the delta connected equivalent of a star connected balanced a.c. or d.c. load and vice versa.
- ↯ converting a complex non-series/parallel network to a series/parallel network by means

of star-delta or delta-star conversions.

- ↯ verifying star-delta and delta-star network conversions by measurements.

T13 Complex a.c. power and maximum power transfer theorem encompassing:

- ↯ true power, reactive power and apparent power
- ↯ maximum power transfer
- ↯ calculating real, reactive and apparent power for series/parallel a.c. circuits and state the appropriate units of measurement.
- ↯ calculating the power factor of a.c. series/parallel circuits.
- ↯ drawing power triangle for a given circuit.
- ↯ calculating the load value which would consume maximum power and calculate this power for d.c. networks.
- ↯ calculating the load value which would consume maximum power in an a.c. network when the load is a pure resistance and calculate the power.
- ↯ calculating the load value which would consume maximum power in an a.c. network when the load is an impedance of variable resistance and reactance and calculate the power.
- ↯ verifying load selection by measurement.

T14 Transients encompassing:

- ↯ transients in R-C and R-L circuits
- ↯ growth and decay
- ↯ calculating voltage and currents in R-C series circuits using exponential equations.

→ calculating voltage and currents in R-L series circuits using exponential equations

EE203	Three Phase Power Circuits
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This unit covers determining correct operation of complex polyphase power circuits and providing solutions as they apply to electrical power engineering work functions. It encompasses working safely, problem solving procedures, including using electrical measuring devices, applying appropriate circuit theorems and providing solutions derived from measurements and calculations and justification for such solutions.

### **KS01-EG149A Polyphase power circuit analysis**

Evidence shall show an understanding of polyphase power circuit analysis to an extent indicated by the following aspects:

#### **T1 Polyphase supply system encompassing:**

→ advantage of three phase system compared to single phase systems

→ double subscript notation

→ phase sequence

→ 120 degree operator

→ given circuit component parameters, solve practically based problems using:

→ equivalent circuits of transformers, lines and loads.

→ component values using rectangular and polar notation.

→ current divider and potential divider rules using complex impedances.

→ The “per unit” values of voltage, current, VA and impedance to a common VA base.

#### **T2 Types of three phase system connections encompassing:**

→ supply to balanced star, 3 and 4 wire loads

→ supply to delta connected loads

→ effects of phase reversal

representation of currents and voltages as complex phasors for 3 phase and 3 phase and neutral quantities.

→ calculation the values of and draw labeled phasor diagrams, not to scale, to represent complex values of current and voltage for balanced and unbalanced loads for star and delta systems.

→ calculation of values of P, Q and S for balanced and unbalanced systems.

→ draw and label single phase diagrams to represent 1 phase of a complex 3 phase system.

→ represent unbalanced voltages or currents as symmetrical components.

→ Phase to phase currents

→ Phase to neutral/earth currents.

#### **T3 Balanced three phase loads encompassing:**

→ calculations of balanced loads connected in star

→ calculations of balanced loads connected in delta

→ calculation of steady state values of fault current for various configurations.

→ evaluation of the symmetrical component impedances for the various distribution system components. Transformers (earthed neutral case). Generators (high impedance earth)

- ↯ calculation of fault currents using the per unit approach.
- ↯ calculation using the “worst case” values based on transformer impedance only (ie., a short circuit fault)
- ↯ estimation of peak values using accepted multipliers.
- ↯ effects of the d.c. component on the instantaneous magnitudes of fault currents in transformers and generators.

T4 Unbalanced three phase loads encompassing:

- ↯ Star – 4 wire systems
- ↯ Delta systems
- ↯ Star – 3 wire systems
- ↯ Star 4 wire with neutral impedance

T5 Power in three-phase circuits encompassing:

- ↯ summation of phase powers and power in balanced loads
- ↯ measurement of power in balanced loads – 2 Wattmeter methods

T6 Reactive three phase power encompassing:

- ↯ power triangle calculation
- ↯ measurement of VAR
- ↯ power factor correction

T7 Fault currents encompassing:

- ↯ symmetrical components
- ↯ positive, negative and zero sequence impedance

fault current breaking and let-through energy capacities of circuit breakers, fuses

- ↯ importance of fault/arc impedance
- ↯ calculation of fault currents - phase-to-earth faults
- ↯ calculation of fault currents - phase-to-phase faults
- ↯ analysis of asymmetrical faults currents.

T8 Harmonics in three phase systems encompassing:

- ↯ presence of triple in harmonics in 3 phase systems
- ↯ effects of 3 phase harmonics for different star and delta connections.
- ↯ methods for reducing harmonics in three phase systems.

EE204

Engineering Physics

This unit covers the law of physics and how they apply to solving electrotechnology related problems. It encompasses working safely, knowledge of measurements of physical phenomena, linear and angular motion, harmonic motion, wave theory, optics, acoustics and heat capacity and transfer, use of measurement techniques, solving physics related problems and documenting justification for such solutions.

### KS01-EE082A Electrotechnology engineering physics

Evidence shall show an understanding of electro engineering physics to an extent indicated by the following aspects:

## T1 Measurement encompassing

- SI units in measurement of physical phenomena
- Uncertainty and tolerance

## T2 Linear motion

## T3 Angular motion

## T4 Simple harmonic motion and vibration

## T5 Wave theory

- Interference
- Diffraction

## T6 Electromagnetic waves and propagation

## T7 Optics

- Mirrors and lenses
- Optical fibre

## T8 Acoustics and ultrasonics

## T9 Heat capacity and heat transfer

- Fluid power

EE205	Electrical Power System
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### 2.6.22.6 Electrical power distribution systems diagnostic

#### a) Distribution system overview including:

regulatory conditions of supply and utilisation

compliance with Australian Standards.

reticulation system including overhead/underground, urban/rural, HV customers and high-rise building systems. The effects of industrial customers

methods used to ensure continuity of supply.

types of substations in current use.

systems of distribution used, (primary and secondary)

voltage levels, power factor, wave-form distortion and transient loading

supply quality

load curve profiles (residential/industrial/commercial)

types of feeders

distribution systems (urban, rural single-phase systems, SWER, spur, parallel and ring systems etc.)

#### b) Overhead lines and installation

industry and safety regulations

overhead conductors

- conductor material
- current rating factors (heating, voltage drops, power losses)
- aerial bundled cables (HV and LV)
- covered conductors

Note: The characteristics of lines and cables including the calculation of R, X and B for different arrangements of conductor. Typical values for actual lines. Transposition. Models based on line length. Voltage and line regulation

- overhead line poles
  - types (wood, concrete and steel)
  - installation of poles (tooling, rake, life, labelling, sinking)
  - maintenance of poles – above & below ground
- pole strength and loads
- crossarms
  - types and standard sizes
- insulators
  - insulation types
  - types (pin, suspension or disc, shackle)
  - creepage, necessary clearances
  - arcing horns, insulator mounting
- structure types
  - mechanical properties (working strength, maximum tension, limiting size)
- interpretation of stringing charts

- determination of sag (by calculations or measurement and/or tension measurement)
- sight and wave sagging, sag correction
- stays
  - components, anchorage

- c) Use of design schedules
- sample design problems

Note: Examples of common design practice line, voltage, structure types used, line deviation, span sag, crossarms, insulators and stays wind loading and line deviation loading basic surveying measurement of levels, deviation angle and compass bearings perform survey of short distribution line extension of produce field notes

- d) Underground cables
  - cable types, ratings, core material, design considerations, cable dielectrics, insulating materials and abbreviations, electric stress, cable volt drop and volt drop calculations, cable termination, joints and installation.
  - induction and eddy currents
  - cable testing, cable fault location

cable drawing

e) Voltage regulations of feeders and associated equipment

terminology used: distribution system, service line, customer's terminals, customer voltage, utilisation voltage, base voltage, voltage variation and bandwidth

voltage limits and effects of voltage variation

causes of variation: inductance, capacitance and reactance of distribution lines, transformers

methods of voltage control: off-load, on-load tap changers, voltage regulating relays, line drop compensation, different types of voltage regulators

voltage profiles: principles, effect on voltage profiles, limits of voltage, voltage drops due to LV mains transformers, tap settings feeder and service lines

determining volt drops for components within the profile.

f) Control of voltage. Conditions leading to voltage collapse and system disintegration. Effects on the system of high/low volts. Voltage control devices including:

voltage regulators applied to generators and synchronous phase modifiers

electromagnetic voltage regulators

series and parallel capacitors

OLTC transformers and static Var compensations (SVCs)

g) Range of devices covered by SVCs including:

saturated reactor compensations (SRs)

thyristor controlled reactor compensators (TCRs)

combined TCR/TSCs and

production of wave-form distorting harmonics and control devices

h) Importance of the location in the system of voltage control devices

i) Types of communication systems including telephone, power line carrier, dedicated cable, micro-wave links and fibreoptics. Quantities and signals to be communicated.

Advantages and disadvantages of the various systems. Equipment requirements

j) Transient over-voltages in power systems. Switching and lightning overvoltages and their

effect on different plant items. Transient over-voltage control and reduction using surge diverters, shield wires and CB are control. Insulation systems, insulation co-ordination, insulation grading in plant items, bushings and capacitor bushings

k) The principles of operation, voltage and current range, breaking capacity and field of use of the following types of circuit breakers.

bulk oil, small oil volume, air break, vacuum and SF6 (double pressure and puffer types).

l) The types of isolators in use. Examples include duo-roll, blade and scissor type.

m) Circuit breaker auxiliary systems including:

d.c. systems including battery types, charging and protection systems and earth fault detection systems

SF6 conditioning, storage and handling system

EE206	AC Machines	
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Synchronous Machines



This unit covers developing engineering solutions to resolve problems with synchronous machines and their controls. It encompasses working safely, apply extensive knowledge of synchronous machine operation, construction and their application, gathering and analysing data, applying problem solving techniques, developing and documenting solutions and alternatives

### **KS01-EG143A Synchronous machine diagnostics**

Evidence shall show an understanding of developing engineering solutions for synchronous machine problems to an extent indicated by the following aspects:

T1 a.c. generators – construction, types and cooling encompassing:

- ↯ construction of stator and rotor windings
- ↯ rotor construction (cylindrical and salient pole)
- ↯ advantages of rotating field construction
- ↯ excitation methods
- ↯ cooling methods
- ↯ prime movers

T2 a.c. generators – operating principles and characteristics encompassing:

- ↯ a.c. generator equivalent circuits (synchronous reactance and resistance components)
- ↯ tests – open circuit, short circuit, stator impedance
- ↯ voltage regulation, island generator's terminal voltage load power factor
- ↯ determination of excitation voltage and load angle

T3 Synchronising a.c. generators encompassing:

- ↯ conditions for synchronising (infinite bus)
- ↯ methods for synchronising (lamp methods, synchroscope)
- ↯ alternator load sharing, parallel operation

T4 a.c. generators power, torque and efficiency encompassing:

- ↯ power input, input torque, speed
- ↯ power losses
- ↯ output power, load power factor, rotor angle, pu power
- ↯ efficiency
- ↯ performance chart interpretation

T5 Voltage regulation (AVR) encompassing:

- ↯ need for AVR's
- ↯ features of AVR's
- ↯ effects of rotor inductance
- ↯ connections of AVRs
- ↯ operation of AVRs

T6 a.c. generator operational stability encompassing:

- ↯ power output, VAR effects, rotor angle, excitation
- ↯ control of VAR (OLTC transformers)
- ↯ voltage dependant nature of stability
- ↯ critical clearance angle of a.c. generator

↯ stability limits

#### T7 a.c. generator protection encompassing:

↯ restricted, unrestricted primary, back up and duplicated protection

↯ overcurrent, short circuit, differential, reverse power, load unbalance, rotor overload, loss-of-field, rotor earth fault, station earth fault, under frequency protection

↯ external fault protection

#### T8 Induction generator encompassing:

↯ types operating principles, characteristics

↯ excitation methods

↯ losses and efficiency

↯ synchronising and paralleling

#### T9 Three phase synchronous motors encompassing:

↯ construction – rotor, stator, windings

↯ excitation methods

↯ operating principles (equivalent circuits, synchronous impedance)

↯ hunting and stability limits

↯ power factor correction

↯ paralleling and synchronisation techniques

↯ starting methods

↯ braking methods

### Part 2 Induction Machines

This unit covers developing engineering solutions to resolve problems with induction machines and their controls. It encompasses working safely; apply extensive knowledge of induction machine operation and construction and their application, gathering and analysing data, applying problem solving techniques, developing and documenting solutions and alternatives.

Note.

Typical motor problems are those encountered in meeting performance requirements and compliance standards, revising a machine operating parameters and dealing with machine malfunctions.

#### **KS01-EG145A Induction machines diagnostics**

Evidence shall show an understanding of developing engineering solutions for induction motor problems to an extent indicated by the following aspects:

##### T1 Operating principles of polyphase induction motors encompassing:

↯ rotating magnetic field torque slip

↯ MMF relationships

↯ Leakage fluxes

##### T2 Construction of polyphase induction motors encompassing:

↯ squirrel cage motors

↯ slip-ring motors

↯ construction considerations in minimisation of tooth locking

### T3 Speed-torque relationships in induction motors encompassing:

- ↳ maximum torque
- ↳ torque – slip relationships
- ↳ squirrel cage rotor types
- ↳ power flow in the motors
- ↳ power distribution
- ↳ torque units
- ↳ slip ring rotors

### T4 Induction motor performance testing encompassing:

- ↳ no-load tests

### locked rotor tests

- development of motor equivalent circuit from test results
- analysis of motor performance using circle diagrams

### T5 Induction motor starters encompassing:

- ↳ starting requirements
- ↳ type of starters
- ↳ starting torque
- ↳ starting dynamics
- ↳ static friction
- ↳ mechanical loads
- ↳ starting duration

### T6 Reduced voltage starting encompassing:

- ↳ starting dynamics
- ↳ change over conditions
- ↳ starting duration
- ↳ acceleration curves

### T7 Speed control of induction motors encompassing:

- ↳ constant torque, constant power concepts
- ↳ torque-flux-voltage relationships
- ↳ rotor resistance control
- ↳ stator impedance control
- ↳ variable frequency control (e.g. PAM, PWM, Flux vector control)

### T8 Braking of induction motors encompassing:

- ↳ electrical braking systems (plugging, d.c. dynamic, regenerative, capacitor-magnetic)
- ↳ mechanical braking systems (mechanical drum, demag, eddy current)

### T9 Motor protection encompassing:

- ↳ overload
- ↳ earth fault
- ↳ phase failure

### T10 Motor selection criteria and RMS rating

### T11 Induction motor maintenance/repair encompassing:

- ¬ routine maintenance schedules

- ¬ type of repairs (mechanical, electrical)

## T12 Single phase induction motors encompassing:

- ¬ operating principles (especially RMF)

- ¬ construction types

- speed-torque relationships

- ¬ testing

EE207	DC Machine
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This unit covers developing engineering solutions to resolve problems with d.c. machines and their controls. It encompasses working safely; apply extensive knowledge of d.c machine operation and construction and their application, gathering and analysing data, applying problem solving techniques, developing and documenting solutions and alternatives.

Note.

Typical machine problems are those encountered in meeting performance requirements and compliance standards, revising machine operating parameters and dealing with machine malfunctions.

## KS01-EG144A Direct current machine diagnostics

Evidence shall show an understanding of developing engineering solutions for d.c. machine problems to an extent indicated by the following aspects:

### T1 Basic d.c. machine construction and operation encompassing:

- ¬ General principles of operation

- ¬ Applications of d.c. machines

- ¬ Construction of d.c. machines

- ¬ d.c. machine configurations; series, shunt, compound long shunt and compound short shunt

- ¬ Armature and field currents

- ¬ Insulation

- ¬ Ratings

- ¬ Cooling paths

- ¬ Bearings

- ¬ General maintenance of d.c. machines

### T2 Construction and use of lap and wave windings encompassing:

- ¬ coils and elements

- ¬ generated voltage equation for generator

- ¬ generated voltage equation for motors

- ¬ application of lap and wave windings

### T3 Commutation process encompassing:

- ¬ use of interpoles

- ¬ loading of machines

- ¬ brush shifting

→ brush selection

## classes of brush grades

Note:

Examples include: natural graphite, hard carbon, electrographite, metal-graphite, metal-carbon, “treated” grades

→ carbon brush contact characteristics

Note:

Examples include: specific resistance, thermal conductivity, density and porosity, elastic properties, contact properties

→ carbon brush factors

Note:

Examples are: pressure, current, polarity, speed

→ brush construction

Note:

Examples are: dimensions, tolerances, preferred sizes, surfaces, edges, bevels, flexible shunts, connection of flexible shunt to brush, insulation of flexible connections

→ brush holders

Note:

Examples are: types, brush angles, trailing holders, reaction holders, top bevel angles, reversible rotation, cantilever holders, effective arc of contact, construction of brush holders, pressure mechanism

→ mounting of brush holders and brushes

Note:

Examples are: clearances, brush angle, brush arm spacing, alignment, staggering, brush bedding, brush pressure

→ brush operation

Note:

Examples are: temperature rise, number and size of brushes, current distribution between brushes, slotting brushes, polarity effects, arc of contact, materials for commutators, mica

→ selection of brush grades

Note:

Examples are: machine data, current density, commutator peripheral speed, brush arc, pitch of segments, number of segments covered by brush, cooling surface

T4 Armature reaction in d.c. machines encompassing:

→ effect of armature reaction on d.c. machine characteristics

→ use of compensating winding

T5 d.c. generators encompassing:

→ relative advantages and disadvantages of the various dc generator configurations

and their performance under various load conditions

- ↯ voltage regulation as a percentage or per unit value
- ↯ operation in parallel

T6 d.c. motors encompassing:

- ↯ relative advantages and disadvantages of the various dc motor configurations and their performance under various load conditions
- ↯ shape of motor speed/torque curves
- ↯ reversal of rotation

T7 Starting and protection of d.c. motors encompassing:

- ↯ types of d.c. motor starters in use
- ↯ d.c. motor protection

T8 Speed regulation and speed control of d.c. motors encompassing:

- ↯ methods in use
- ↯ effect on motor design and operation caused by the use of SCR
- ↯ speed control equipment

T9 Braking of d.c. motors encompassing:

- ↯ Plugging
- ↯ Dynamic
- ↯ Regenerative
- ↯ Mechanical

T10 Losses, heating and efficiency encompassing:

- ↯ Copper losses
- ↯ Iron losses
- ↯ Mechanical losses
- ↯ Efficiency

T11 Acceleration of d.c. motors and loads encompassing:

- ↯ characteristics of typical loads
- ↯ matching a suitable motor to a given load
- ↯ heating of windings
- ↯ derating of motors

T12 Special d.c. motors construction, operation and applications encompassing:

- ↯ permanent-magnet motors
- ↯ brushless motors (e.c. motors)
- ↯ coreless and moving coil motors
- ↯ linear motors
- ↯ printed circuit motor
- ↯ stepping motors

voice-coil motors

T13 Maintenance of d.c. machines encompassing:

- ↯ routine maintenance
- ↯ breakdown repairs

T14 types of faults encompassing:

- ↯ brushes/brush gear problems

Note:

Examples are: sparking, excessive heating, excessive wear of brushes, commutator or slip rings, bad surface conditions, excessive maintenance, flexible burning, flexible corrosion, separation or grooving, blackening, copper picking, copper dragging, brush noise

T15 adjustment of machines encompassing:

- ↯ correct brush position
- ↯ machining and finishing of commutators

EE208	Operational Amplifiers
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## Part 1- Operational Amplifier

This unit covers determining correct operation of amplifiers. It encompasses working safely, problem solving procedures, including the use of voltage, current and resistance measuring devices, providing solutions derived from measurements and calculations to predictable problems in amplifier sections/circuits.

### KS01-EH113A Amplifier fundamentals

Evidence shall show an understanding of amplifier troubleshooting, applying safe working practices and relevant Standards, Codes and Regulations to an extent indicated by the following aspects:

T1. Single stage discrete amplifier d.c. characteristics

- ↯ Risk and safety
- ↯ Field effect transistors (FET) and Bi-junction transistor (BJT) circuit symbols
- ↯ Quiescent (Q) point
- ↯ Biasing methods for BJT and FETs
- ↯ Circuit theory for BJT and FETs
- ↯ Verification of performance of BJT and FET amplifier circuits

T2. Single-stage discrete amplifier small signal characteristics

- ↯ Small signal gain
- ↯ Gain measurements
- ↯ Overdrive conditions

T3. Capacitive coupling in single-stage discrete amplifiers

- ↯ Coupling capacitor functions
- ↯ Coupling capacitor effect on low frequency response

- ↳ Emitter\source bypass capacitor effect on low frequency response
- ↳ Verification of circuit operation and frequency response (eg. Bode Plot).

#### T4. Multistage amplifier coupling methods

- ↳ Coupling methods
- ↳ Total gain
- ↳ Bandwidth considerations
- ↳ Verification of circuit operation

#### T5. Differential amplifiers

- ↳ Differential amplifier concept
- ↳ Typical circuit operation
- ↳ Differential and common-mode gain
- ↳ Common mode rejection
- ↳ Constant current and voltage sources
- ↳ Verification of circuit operation

#### T6. Negative feedback

- ↳ Concept of negative feedback
- ↳ Effects of negative feedback
- ↳ Negative feedback configurations
- ↳ Amplifier gain and negative feedback

#### T7. Introduction to classes of power amplifier operation

- ↳ Power efficiency
- ↳ Classes and applications
- ↳ Crossover distortion

#### Class AB operation

- Heat sinking

#### T8. Complimentary symmetry power amplifiers

- ↳ Biasing and crossover distortion
- ↳ Power efficiency
- ↳ Quasi-complimentary and Darlington output configurations
- ↳ Complete amplifier operation
- ↳ D.C. operating condition calculations
- ↳ Verification of circuit operation

#### T9. Other solid state power amplifier design

- ↳ Transformer coupled power amplifiers
- ↳ I.C. power amplifiers
- ↳ Class D power amplifiers

#### Part 2 Three phase electronic power control



This unit covers solving problems with electronic aspects of polyphase power control devices and circuits. The unit encompasses safe working practices, interpreting diagrams, applying knowledge of electronic power control devices and their application, using effective problem solving techniques, safety and functional testing and reporting work activities and outcomes.

Note.

Typical polyphase electronic power control problems are those encountered in meeting performance requirements and compliance standards, revising control operating parameters and dealing with control malfunctions.

### **KS01-EI149A Polyphase electronic power control circuit**

Evidence shall show an understanding of polyphase electronic power control circuit to an extent indicated by the following aspects:

T1 Three Phase Rectifier Circuits encompassing:

- ↯ Three-Phase Circuit Configurations
- ↯ Resistive/Inductive Loads
- ↯ Output Voltages/Waveforms
- ↯ Ripple Voltage/Frequency
- ↯ Peak Reverse Voltages
- ↯ Free Wheeling Diodes

Measurement of rectifier output parameters.

T2 Three-Phase Half Wave Controlled Rectifiers encompassing:

- ↯ Phase control
- ↯ Purpose/operation of half controlled rectifiers
- ↯ Circuit configuration
- ↯ Rectifier performance and operation - resistive loads
- ↯ Output voltage – resistive load
- ↯ Rectifier performance and operation - inductive loads
- ↯ Rectifier output waveforms
- ↯ Applications and limitations
- ↯ Advantages and disadvantages three-phase controlled rectifiers.

T3. Three-Phase Half Controlled Bridge Rectifier encompassing:

- ↯ Purpose/operation of a half controlled bridge rectifiers
- ↯ Circuit configuration and connections
- ↯ Rectifier output - resistive loads
- ↯ Output voltage – resistive loads
- ↯ Rectifier output - inductive loads
- ↯ Output voltage - inductive loads
- ↯ Flywheel diode
- ↯ Output voltage calculations
- ↯ Applications and limitations
- ↯ Advantages and disadvantages three-phase half controlled bridge rectifiers.

#### T4. Three-Phase Fully Controlled Bridge Rectifier encompassing:

- ↳ Purpose/operation of a fully controlled bridge rectifiers
- ↳ Circuit configuration and connections
- ↳ Rectifier output - resistive loads
- ↳ Output voltage – resistive loads
- ↳ Rectifier output - inductive loads
- ↳ Output voltage - inductive loads
- ↳ Flywheel diode
- ↳ Output voltage calculations
- ↳ Applications and limitations
- ↳ Advantages and disadvantages three-phase fully controlled bridge rectifiers.

#### T5. Three-Phase a.c. Controllers encompassing:

- ↳ Circuit configurations
- ↳ Circuit operation
- ↳ Triacs and SCRs circuits
- ↳ Triggering requirements

#### Output voltage and waveforms

- Determination of output voltage
- Applications
- Advantages and disadvantages

#### T6. DC Converters encompassing:

- ↳ Purpose and operation of d.c. converters
- ↳ Circuit configurations
- ↳ Voltage control methods
- ↳ Forced commutation methods
- ↳ Calculation of load voltage
- ↳ Output voltage/waveforms
- ↳ Applications
- ↳ Advantages and disadvantages

#### T7. Cycloconverters encompassing:

- ↳ Purpose/operation of a cycloconverter
- ↳ Basic circuit configurations
- ↳ Measurement of output voltage
- ↳ Calculation of load voltage
- ↳ Output voltage/waveforms
- ↳ Applications and limitations
- ↳ Advantages and disadvantages

#### T8. Invertors encompassing:

- ↳ Purpose/operation of an inverter
- ↳ Basic circuit configurations
- ↳ Measurement of inverter outputs
- ↳ Output voltage

- ↯ Applications and limitations
- ↯ Advantages and disadvantages

#### T9. Thyristor Protection encompassing:

- ↯ Power Control Devices Failure
- ↯ Protection Techniques
- ↯ Snubber Networks
- ↯ Series Inductors
- ↯ Amp Trap (HRC) fuses
- ↯ Gate Pulse Suppression

#### 10. Installation of Thyristor Devices and Circuits encompassing:

- ↯ Need for heat sinking of power thyristor devices
- ↯ Heat sink features and types

#### Installation methods for all types of thyristor packages

- Basic thermal model, only to demonstrate the effect of different heat sink
- Types and profiles and installation methods on thyristor junction temperature.

#### T11. Series and Parallel Thyristor Connections encompassing:

- ↯ Purpose of Series/Parallel Connection
- ↯ Series Connections
- ↯ Reasons
- ↯ Operational Problems
- ↯ Parallel Connections
- ↯ Reasons
- ↯ Operational Problems

#### T12. Fault Finding Three Phase Thyristor Circuits encompassing:

- ↯ Fault finding procedures
- ↯ Typical faults – power and trigger circuits
- ↯ Characteristics displayed by common faults
- ↯ Comparison of test data with expected data (voltage/current waveforms)
- ↯ Location and replacement of faulty components

EE209

Analogue Electronics

This unit deals the replacement of electronic components, cabling and sub systems of electronic apparatus. It encompasses safe working practices, following written and oral instruction and procedures, basic testing and techniques, dismantling and assembling apparatus and disconnecting and reconnecting components.

#### **KS01-EH102A Component replacement to repair basic electronic apparatus faults**

Evidence shall show an understanding of component replacement to repair basic electronic apparatus faults, applying safe working practices and relevant Standards, Codes and Regulations to an extent indicated by the following aspects:

##### T1. Electronic soldering equipment and techniques

- ↯ Workshop hazards and safety associated with soldering
- ↯ Quality concepts
- ↯ Electronic soldering equipment

- ↗ The soldering process
- ↗ Lead free solder

## T2. Printed circuit board soldering techniques

- ↗ Electronic component mounting
- ↗ Solder rework of printed circuit boards.
- ↗ Faulty solder joints

## T3. Soldering electronic cables

- ↗ Soldering multi-strand, ribbon and coaxial cables
- ↗ Effects and prevention of electrostatic discharge (ESD)

## T4. Electronic component basics

- ↗ Types of components
- ↗ The physical features and primary characteristic of components
- ↗ Marking and codes on components
- ↗ Handling static sensitive components

## T5. Electronic cable overview and coaxial cable

- ↗ Coaxial cables types and characteristics
- ↗ Coaxial cable termination

## T6. Performance copper cables

- ↗ Twisted pair voice and data cables
- ↗ Insulation displacement (IDC) termination
- ↗ Colour codes
- ↗ Terminating performance cables
- ↗ Harness wiring

## T7. Electronic apparatus components

- ↗ Fault finding
- ↗ Testing
- ↗ Replacement

EE301

Advanced Electrical Drafting

This unit covers the production of detailed electrical drawings, drawing sets and documentation. It includes safe working practices; interpreting technical data and specifications; using advanced computer-aided systems and commands and appropriate drafting peripheral systems, equipment and tools to develop detailed drawings. It also includes applying knowledge of electrical equipment design drawing methods, techniques, procedures and protocols and documenting design, storing and retrieving data, and producing related documentation for presentation of preliminary and final drafts for verification.

### KS01-EG179A Electrical Detailed Drawings

Evidence shall show an understanding of electrical detailed drawings to an extent indicated by the following aspects:

T1 (Is the number correct?) Producing final drafts for verification encompassing:

- principles, purpose and concept of verification of drafting products encompassing: production of electrical drawings for verification by authorised persons, production of drawing sets, production of related documentation, presentations of final drafts
- processes and procedures related to the verification of final drafts by authorised persons encompassing: accuracy
- publication of verified electrical drawings

## T2 Detailed electrical drawing production covering encompassing:

- distribution branch circuits and boards, services and load calculations; encompassing panels(HV/LV)/switch boards/motor control centres/final
- conductor/cable selection and calculations encompassing: electrical, data, communications
- overcurrent and overvoltage protection
- cable support systems; encompassing cable trays, trunking, conduits, ducts, guards, saddles, carriers, raceways/cavities, poles
- box and fitting fill requirements
- wiring devices and terminations
- distribution equipment; encompassing power circuit devices
- distribution system transformers; encompassing specialty transformers, power circuit devices
- lighting applications; encompassing lamps, ballasts, and components
- motors; encompassing functional controls, advanced motor controls, motor calculations, motor maintenance arrangements

## hazardous areas encompassing: electrical equipment; classification of

- emergency standby systems; encompassing UPS/inverter and battery banks
- fire alarm systems
- high-voltage terminations/splices
- cable size selection for installation cable run
- cable sizes, voltage drops, conduit sizes, fault levels, fuse/circuit breaker (CB) sizes and working temperatures
- short circuit calculations
- earth loop impedance compliance test arrangements on the completed design
- touch potentials calculations
- cable schedules creation
- “single line” and “as built” drawings; encompassing three phase schematic colour

## diagrams, marked up cable calculations, short circuit results, earth loop impedance results

- quantities parts list and drawings for tender drawings issued by electrical consultants/engineers
- coordination and discrimination studies
- Building Management Systems (BMS) encompassing: building information modelling and sustainable design
- fuse and CB trip curves plots and displays
- troubleshooting/fault finding

## T3 Schematic component commands detailed encompassing:

- schematic symbols editor
- schematic editor
- components from lists
- connectors
- terminals; encompassing multiple level and jumpers
- circuits
- multiple phase circuits

#### T4 Schematic editing encompassing:

- ↗ advanced utilities
- ↗ copy catalogue and location
- ↗ values
- ↗ swapping and updating blocks
- ↗ using the auditing tools
- ↗ update and retag drawings

#### T5 Detailed panel layouts encompassing:

- ↗ detailed panel layouts creation
- ↗ din rail tool
- ↗ terminal strip editor
- ↗ detailed panel layout annotation
- ↗ detailed reports

#### T6 Digitising and scanning encompassing:

- ↗ drawings digitisation; encompassing tablet and software configuration, tablet and puck, grids setup and alignment marks for various size drawings, software parameters setting, hard copy drawings digitisation to tablet parameters
- ↗ digitised drawing editor, manipulation and save
- ↗ digitise and grid setups and alignment marks on a hard copy of a large drawing (e.g. A1)
- ↗ scanning devices and peripherals setup encompassing associated software usage, save (e.g. file formats for use other software applications) and management
- ↗ scanned image conversion to vector format, edit and save in file formats for use in CAD; encompassing importation of scanned images into CAD drawings in image formats for editing

EE302	Advanced Engineering Mathematics
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This unit covers the application of advanced computational processes to solve energy sector engineering problems. It encompasses working safely, applying problem solving techniques, using a range of advanced mathematical processes, providing solutions to electrical/electronics engineering problems and justifying such solutions. Note. Typical engineering problems are those encountered in meeting requirements in a design brief, meeting performance requirements and compliance standards, revising systems operating parameters and dealing with system malfunctions

#### **KS01-EE127A Advanced Engineering Maths**

Evidence shall show an understanding of advanced engineering maths to an extent indicated by the following aspects:

##### T1 Differential Calculus encompassing:

- ↗ basic concepts of differential calculus, limited to definition of the derivative of a function as the slope of a tangent line (the gradient of a curve); limits; basic examples from 1st principles; Notation and Results of derivative of  $k.f(ax + b)$  where  $f(x)=x$  to the power of  $n$ ,  $\sin x$ ,  $\cos x$ ,  $\tan x$ ,  $e$  to the power of  $x$ ,  $\ln x$ .
- ↗ rules - derivative of sum and difference; product rule; quotient rule; chain rule (function of a function), limited to two rules for any given function, the 2nd derivative.
- ↗ applications - equations of tangents and normals; stationary points; turning points; and curve sketching; rates of change; rectilinear motion
- ↗ verbally formulated problems involving related rates and maxima: minima

##### T2 Integral Calculus encompassing:

↵ integration as the inverse operation to differentiation - results of the integral of  $k \cdot f(ax + b)$  where  $f(x) = x$  to the power of  $n$ ,  $\sin x$ ,  $\cos x$ ,  $\sec^2 x$ ,  $e$  to the power of  $x$ , method of substitution, the definite integral.

↵ applications - areas between curves; rectilinear motion including displacement from acceleration and distance travelled; voltage and current relationship in capacitors and inductors and the like.

### T3 Linear Algebra encompassing:

- ↵ matrices and inverse matrices;
- ↵ linear mapping,
- ↵ determinants,
- ↵ solution of linear equations.

### T4 Vectors encompassing:

- ↵ geometrical representation,
- ↵ addition and scalar multiplication,
- ↵ dot and cross products,
- ↵ equations of lines and planes.

### T5 Variables encompassing:

- ↵ graphs, level curves and surfaces
- ↵ partial derivatives; chain rule; directional derivative;
- ↵ maxima and minima.

### T6 Sequences and Series encompassing:

- ↵ algebraic and Fourier series, convergence; Taylor's Theorem
- ↵ power series manipulation.

### T7 Differential Equations encompassing:

- ↵ first order and separable linear equations
- ↵ second order linear equations.
- ↵ partial differential equations.
- ↵ numerical Techniques.

### T8 Number encompassing:

- ↵ integer, irrational and complex numbers.
- ↵ number systems.
- ↵ arithmetic operations.
- ↵ accuracy and stability.

### T9 Statistics encompassing:

- ↵ assembly, representation and analysis of data.
- ↵ fitting distributions to data.
- ↵ non-parametric statistics.
- ↵ tests of significance for means, variances and extreme values.
- ↵ correlation

This unit covers diagnosing and rectifying faults in electrical energy transmission systems. The unit encompasses safe working practices, interpreting diagrams and technical data, applying knowledge of energy supply and transmission systems to logical fault finding processes, implementing fault rectification, safety and functional testing and reporting work activities and outcomes

- a) Overview of the transmission system including lines, buses, transformers and cables. Line/bus layouts including single and double switching, breaker and a half systems and HV crossing methods.
- b) The principles involved in high voltage a.c. transmission including tower types and configurations, choice of towers or poles (economic and environmental), insulator types and configuration, types of conductors, their configuration and standard nomenclature. Typical line spacing and ground clearances. Line ratings based on ambient temperature. Conductor terminating and clamping equipment including vibration damping principles and equipment.
- c) The principles involved in d.c. transmission including the economics, harmonic generation, VAR requirements and protection difficulties. Types of connections and transformer requirements. Advantages and disadvantages of d.c. transmission. Typical overseas systems. Likely (future) use in this country.
- d) The principles of operation, voltage and current range, breaking capacity and field of use of the following types of circuit breakers.
  - bulk oil
  - small oil volume
  - air break
  - air blast
  - air puffer
  - vacuum and
  - SF6 (double pressure and puffer types).
- e) The types of isolators in use. Examples include duo-roll, blade and scissor type.
- f) Circuit breaker auxiliary systems including:
  - high pressure air systems and air storage and handling processes
  - d.c. systems including battery types, charging and protection systems and earth fault detection systems
  - SF6 conditioning, storage and handling system
- g) The characteristics of lines and cables including the calculation of R, X and B for different arrangements of conductor. Typical values for actual lines. Transposition. Models based on line length. Voltage and line regulation. The transmission of power (P) and VARs (Q).
- h) Control of voltage. Conditions leading to voltage collapse and system disintegration. Effects on the system of high/low volts. Voltage control devices including:
  - voltage regulators applied to generators and synchronous phase modifiers
  - electromagnetic voltage regulators



series and parallel capacitors  
OLTC transformers and static Var compensations (SVCs)

i) Range of devices covered by SVCs including:  
saturated reactor compensations (SRs)  
thyristor controlled reactor compensators (TCRs)  
combined TCR/TSCs and

production of wave-form distorting harmonics and control devices

j) Importance of the location in the system of voltage control devices

k) Use of graphical methods to calculate the size of Var regulating plant

l) Types of communication systems including telephone, power line carrier, dedicated cable, micro-wave links and fibreoptics. Quantities and signals to be communicated.  
Advantages and disadvantages of the various systems. Equipment requirements

m) Transient over-voltages in power systems. Switching and lightning overvoltages and their effect on different plant items. Transient over-voltage control and reduction using surge diverters, shield wires and CB are control. Insulation systems, insulation co-ordination, insulation grading in plant items, bushings and capacitor bushings

n) Factors leading to the generation of corona. Consequences of corona. Reduction of corona including conductor bundling, grading rings and conductor surface treatment

EE304	Power System Protection
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This unit covers developing engineering solutions to resolve problems with energy supply system protection. It encompasses working safely, apply extensive knowledge of energy supply system protection operation, protection devices and their application, gathering and analysing data, applying problem solving techniques, developing and documenting solutions and alternatives.

Note:

Typical protection problems are those encountered in meeting performance requirements and compliance standards, revising a protection operating parameters and dealing with protection malfunctions.

a) Protection scheme requirements

Requirements of a protection scheme

Note: Includes relationship to primary system design, purpose of protection, safety of persons, protection of plant, system instability, system break up, loss of customers, loss of revenue, protection zones, restricted schemes, unrestricted schemes, duplicate protection, local backup protection, remote backup protection, selectivity, discrimination, stability, sensitivity, reliability  
Components of a protection scheme

Note: Includes current transformers, potential transformers, summation current transformers, interposing transformers, multitapped transformers, all-or-nothing relays, induction relays, balanced beam relays, directional relays, biased relays, solid state relays, microprocessor based relays, gas relays, thermal sensors, hardwired communication, powerline carriers systems, microwave systems, fibre optic systems, need for isolation, need for interfacing

Protection applied to buses

Note: Includes overload, differential, earth leakage, structure leakage, combined schemes, protection overlap  
Protection applied to transformers

Note: Includes biased differential, gas, winding temperature, oil temperature  
Protection applied to single/radial lines

Note: Includes overcurrent, earth leakage, slow earth leakage, distance, auto reclose, sectionalising, over voltage

## Protection applied to interconnected lines

Note: Includes overcurrent, pilot wire, directional, directional overcurrent, current differential, phase comparison, current comparison, distance, impedance, admittance, offset

### b) Discrete protection systems

#### Earth fault protection

Note: Includes master earth leakage schemes, sensitive earth fault relays and schemes, residual earth fault scheme, core balance earth fault scheme, frame/structure earth leakage scheme, time graded discrimination, backup protection

#### Overcurrent protection

Note: Includes feeder overcurrent protection, instantaneous overcurrent schemes, inverse timed overcurrent schemes, types and location of components of an overcurrent scheme, CT summation, time graded discrimination, backup protection

#### Alarms and controls

Note: Includes auxiliary relays, voltage regulating relays, line drop compensation, gas relay types, gas relay scheme operation and setting, over temperature schemes

### c) Interdependent protection systems

#### Overcurrent and earth leakage intertripping, interlocking and blocking

Note:

Includes logic mapping, master control, electromechanical, electronic, shading coils

Pilot wire, phase comparison

Note: Includes opposed voltage schemes, circulating current schemes, location of components of a scheme, pilot supervisory techniques,

Load shedding, voltage control, parallel operation, load rejection

CB failure protection

Reclose systems

Note: Includes applications, single shot, multishot, blocking schemes, synchronisation checking

### d) Complex protection systems

#### Distance

Note: Includes characteristics, electromechanical, electronic, impedance, mho, offset mho, switched schemes, non-switched schemes, blocking schemes, bus zone

Differential, transformer differential, bus overcurrent

Note: Includes principles, feeder protection, transformer protection, bias systems, harmonic restraint, CT connections, bus protection, low impedance schemes, high impedance schemes, bus overcurrent schemes, generator protection, CT connections, special considerations, digital systems

Types of revenue metering

Applications of SCADA

Complex protection systems for communications

Harmonic control

Point on wave switching

EE305	Power Transformer
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This unit covers developing engineering solutions to resolve problems with energy supply system protection. It encompasses working safely, apply extensive knowledge of energy supply power transformer operation and their application, gathering and analysing data, applying problem solving techniques, developing and documenting solutions and alternatives.

Note.

Typical transformer problems are those encountered in meeting performance requirements and compliance standards, revising a transformer operating parameters and dealing with transformer malfunctions

a) Transformer construction and operating principles encompassing:

various types of lamination style and core construction used in single-phase, three-phase, double wound and auto transformers.

different winding styles/types used in transformers.

how input current is limited on no load and how power is transferred from primary to secondary when a load is connected.

using the transformation ratio to determine an unknown quantity of V, I, VA.

significance of nameplate data items.

operation of a transformer under load/no load conditions.

the reason any particular type of transformer is used in a specific application.

safety features specified in regulatory standards with respect to transformers.

safety features specified in regulatory standards with respect to isolating transformers.

basic insulation resistance, continuity and winding identification tests.

b) Transformer parameters encompassing:

the percentage impedance of a transformer by test.

percentage impedance of a transformer by calculation.

the equivalent circuit of a transformer.

calculation of voltage regulation.

losses that occur in a transformer.

tests to determine losses.  
efficiency and state typical values.  
the all day efficiency of a transformer.

c) Cooling methods encompassing:  
methods of natural and forced cooling.  
properties of transformer oil.  
tests performed on transformer oil.  
auxiliary equipment  
the purpose and operation of the types of auxiliary equipment used on transformers

Note. Examples are bushings, explosion vents, surge diverters, tap changers, conservator, breathers and desiccants, gas relays, temperature indicators.

d) Instrument transformers encompassing:  
construction of current transformers.  
uses and ratings of current transformers.  
construction of voltage transformers.  
uses and ratings of voltage transformers.  
safety techniques when using instrument transformers.

e) Transformer connections encompassing:  
vector group of a transformer from a connection diagram.  
connections of a three-phase transformer to create a particular vector group.  
reasons for using the different vector groups.  
purpose of tertiary windings.  
consequences/effect of an incorrect connection.

f) Parallel operation encompassing:  
polarity markings for the windings of a transformer.  
conditions/restrictions for parallel operation of transformers.  
calculation of loading on transformers operating in parallel.  
connection of transformers in parallel to supply a common load.  
the consequences/effect of an incorrect connection.

g) Harmonics in transformers encompassing:  
how harmonics are generated in transformers.  
problems caused by harmonics in transformers.  
measurement of the harmonics in a transformer.  
methods/equipment used to overcome harmonics in transformers.

h) High voltage isolation encompassing:

the term high voltage.  
procedures for isolating high voltage apparatus.  
regulations with respect to *access permits*.  
clearances to be observed with respect to high voltages up to 33kV.

the term ‘\_step’ and ‘\_touch’ potential.

EE306	Electro-mechanical Control
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This unit covers solving problems in industrial control systems. The unit encompasses safe working practices, interpreting process and circuit diagrams, applying knowledge of industry controls to problem solving techniques, safety and functional testing and completing the necessary documentation.

Note.

Typical basic industrial control system problems are those encountered in meeting performance requirements and compliance standards, revising control operating parameters and dealing with control malfunctions.

### KS01-EI120A

### Industrial control systems

Evidence shall show an understanding of industrial control systems to an extent indicated by the following aspects:

Control amplifiers encompassing:

- ↗ Introduction
- ↗ Amplifier Operation
- ↗ Operational Amplifiers
- ↗ Operational Amplifier Configurations

Industrial transducers encompassing:

- ↗ Introduction
- ↗ SI Units
- ↗ Forms of Energy
- ↗ Transducer Terminology
- ↗ Temperature Measurement
- ↗ Force Measurement
- ↗ Speed Measurement

Positional Measurement

Industrial final control elements encompassing:

- ↗ Introduction
- ↗ Electromagnetic Devices
- ↗ Valves

## └ Solid State Switching Devices

### Industrial control systems encompassing:

- └ Automatic Control
- └ Open Loop Control
- └ Closed Loop Control
- └ Control System Terminology
- └ Control System Evaluation
- └ Two Position Control
- └ Proportional Control (P)
- └ Proportional + Integral Control (P+I)
- └ Proportional + Derivative Control (P+D)
- └ Proportional + Integral + Derivative Control (P+I+D)

### Industrial control loops and control signals encompassing:

- └ Introduction
- └ Control Loops
- └ Converters (D to A and A to D)
- └ Multiplexing

EE307	Energy Efficient Building Design
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This unit covers evaluating energy used in buildings and developing and documenting strategies/methods to effectively reduce energy use without compromising occupancy standards. It encompasses working safely, setting up and conducting evaluation measurements and evaluating energy use from measured parameters.

### T1 Climate and thermal comfort encompassing:

- └ characteristics of the different Australian climatic types.
- └ use of climatic data in published and electronic forms to extract the quantities relevant to energy efficient design.
- └ relationship between climate and comfort using bioclimatic or psychrometric charts.
- └ calculation of heating or cooling degree days or degree hours for various locations.
- └ calculation of thermal neutrality for a given location.

### T2 Solar geometry and radiation encompassing:

- └ definition of the terms: declination, hour angle, zenith angle, azimuth and altitude angles, the equation of time.
- └ conversion of solar time to local time and vice versa.

- position of the sun and the length of shadows with the aid of algorithms, tables, sun charts or computer software.
- daily irradiation incident on a wall, window or roof of a given tilt and orientation.
- relative summer and winter irradiation of windows facing the cardinal orientations.

#### T3 Heat transfer encompassing:

- thermal processes of conduction, convection and radiation apply to the transfer of heat in buildings.
- calculation of the summer and winter U-values of building elements using tables and software.
- calculation of the infiltration heat transfer in a building.

#### T4 Glazing Systems encompassing:

- different types of glazing systems and their characteristics.
- different types of shading devices and the window orientations for which they are most appropriate.
- solar heat gain for different glazing types and angles of incidence
- calculation of the average daily irradiation of a window partly shaded by eaves, using computer software.
- calculation of the average daily heat gain through a window partly shaded by eaves.

#### T5 Insulation encompassing:

- different types of insulation and where they are used.
- how different types of insulation are installed in roofs, walls and floors.
- determination of the minimum R-values of roof insulation for different locations using Australian Standard AS2627 or similar standards.

#### T6 Thermal mass encompassing:

- advantages and disadvantages of using substantial thermal mass in different climate types and for different heating and cooling regimes.
- where thermal mass can be located in a building.

↯ explain what is meant by the following terms: time lag, decrement factor, admittance, response factor.

T7 Comfort control strategies encompassing:

- ↯ interpretation of the usefulness of a design strategy with the aid of a psychrometric chart showing control potential zones for a particular location.
- ↯ selection of the most useful comfort control strategies for Australian climatic regions.

T8 Energy efficiency in buildings encompassing:

- ↯ determination of the direction of the following: both true and magnetic, north winter and summer sunrise, winter and summer sunset.
- ↯ solar access in summer and winter to various possible house locations on a site and room locations within the house.
- ↯ how vegetation can be used to both funnel and deflect wind.
- ↯ using cross ventilation as a cooling strategy.

T9 Thermal performance of a building encompassing:

- ↯ heating requirements of a building using the heating degree day or hour method.
- ↯ dynamic performance predicted by a computer simulation program such as NatHERS or BERS.

T10 Integration of active solar systems encompassing:

- ↯ active solar system types available which can provide hot water, space heating and cooling.
- ↯ the best location on the roof, and the optimum tilt and orientation of the collector panels.
- ↯ function of the main components of an air or water-based solar space heating system.
- ↯ schematic of the fluid circuit of an air or water- based space

heating system.

- ↯ main solar cooling system types.



T11 Energy rating schemes encompassing:

- differences in approach used by house energy rating schemes in Australia.
- energy performance of a number of houses using a computer simulation program such as NatHERS or BERS.
- other methods to reduce energy consumption within and outside a building including appliance efficiency, human behaviour changes, building management strategies and transportation minimisation.
- additional cost of energy efficiency measures and cost savings using life cycle cost or simple pay back methods according to Aust. Standard AS3595 and AS4536.

T12 Sustainable and safe building materials encompassing:

- common building materials and their embodied energy content.
- environmental impact of the production of various building materials.
- problems associated with the use or disposal of building materials.

EE308	Sustainability
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This unit covers developing strategies to address environmental and sustainability issues in the energy sector. It encompasses working safely, apply extensive knowledge of sustainable energy systems and components and their operating parameters, gathering and analysing data, applying problem solving techniques, developing and documenting alternatives solutions

**KS01-EK132A**

### **Environmental and Sustainability strategies**

Evidence shall show an understanding of greenhouse reduction strategies to an extent indicated by the following aspects:

T1 Principles of sustainability encompassing:

- ways in which ecosystems moderate climate. ways in which ecosystems purify and store water.
- ways in which ecosystems recycle waste.

T2 Problems in a sustainable world encompassing:

- changes to Australian forest cover since white settlement, and the resulting loss of ecosystem and human benefits.
- changes to Australia's soils since white settlement, and the resulting loss of ecosystem and human benefits.

- changes to Australia's waterways since white settlement, and the resulting loss of ecosystem and human benefits.
- place of environmental accounting in quantifying Australia's environmental losses.
- limits to Australia's population carrying capacity.

#### T3 Sustainability principles encompassing:

- principles within sustainability including: environmental accounting and economics; full cost pricing; triple bottom line ethic; ecologically sustainable development; greenhouse gas abatement; energy efficiency; resource and water use efficiency; life cycle costing; renewable energy substitution, cleaner production; waste minimisation, reuse and recycling; ecological footprint.

#### T4 Addressing the problem of global warming encompassing:

- greenhouse gases and their sources and quantities that contribute to global warming.
- global warming impacts for Australia for 2030 and 2070 predicted by CSIRO modelling.
- requirements to achieve stable atmospheric concentrations of greenhouse gases.
- ecologically and economically sustainable methods for achieving these stable concentrations.

#### T5 Greenhouse gas emissions profile encompassing:

- goals and principles of the National Greenhouse Strategy
- what a greenhouse gas inventory is, why it is required, and the sectors to which it applies
- uses to which the National Greenhouse Gas Inventory can be applied.

#### T6 Understanding and communicating climate change and its impacts encompassing:

- the possible impact of climate change in Australia.
- techniques for improving the understanding of climate change
- techniques for communicating to and educating the general

public on greenhouse gas induced climate change.

#### T7 Partnerships for greenhouse action encompassing:

- actions achievable by each level of government to implement the NGS.

- methods by which the community activity can be engaged in the reduction of greenhouse gas emissions.
- initiatives that can be undertaken by the private sector to reduce greenhouse gas emissions.
- advantages of international partnerships.
- emissions trading system.

T8 Efficient and sustainable energy use and supply encompassing:

- techniques for reducing the greenhouse intensity of energy supply.
- types of renewable energy sources suitable for use in Australia.
- methods and technique for improving end-use efficiency.

T9 Efficient transport and sustainable urban planning encompassing:

- how integrating land use and transport planning can assist the greenhouse problem.
- how each of the following can be used to mitigate greenhouse gas; travel demand and traffic management strategies; encouraging greater use of public transport, walking and cycling; freight and logistics systems; improving vehicle fuel efficiency and fuel technologies;

T10 Greenhouse sinks and sustainable land management encompassing:

- how enhancing greenhouse sinks and encouraging sustainable forestry and vegetation management can complement the AGS.
- how greenhouse gas emissions are obtained from agricultural production and describe techniques to mitigate the emissions.

T11 Models of greenhouse best practice in industrial processes and waste management encompassing:

- types and methods of reducing greenhouse gas emissions from industry.
- methods of reducing methane emissions from waste

treatment and disposal.

T12 Adaptation to climate change encompassing:

- salient points in each of the key sectors that require analysis and the strategies required in the need for adaptation to climate change

## Part 1 Project Management

This unit covers the management of large electrical projects involving design, modifications, installation, and/or maintenance of systems and equipment. The unit encompasses management of safety, budget variation, personnel, resources, critical path timelines and completion documentation.

### **KS01-EG169A Electrical project management**

Evidence shall show an understanding of managing electrical projects to an extent indicated by the following aspects:

#### **T1 Defining project parameters encompassing:**

- ↯ Project scope
- ↯ Project stakeholders and clients
- ↯ Project phases and the relationship between phases

#### **T2 Time management concepts and standard practices**

#### **T3 Financial management encompassing:**

- ↯ Financial management concepts
- ↯ Standard practices for managing project finances
- ↯ Project budgets
- ↯ Costs
- ↯ variations and estimations
- ↯ Invoicing against project phases/deliverables
- ↯ Acquittals and the like

#### **T4 Quality management concepts and practices**

#### **T5 Human Resource management concepts and practices within a project**

#### **T6 Communication management concepts and practices within a project**

#### **T7 Risk management and contingencies encompassing:**

- ↯ Risk management concepts
- ↯ Internal risks
- ↯ External risks
- ↯ Contingencies
- ↯ Standard practices for managing risk within a project
- ↯ Risk minimisation
- ↯ Risk removal; and the like

#### **T8 Procurement management concepts and practices**

#### **T9 Physical Resource management concepts and practices relating to equipment, technology, information and facilities**

#### **T10 Contracts encompassing:**

- ↯ Contract format

- ↵ Contract content
- ↵ Interpreting contract clauses
- ↵ Legal obligations of contract parties
- ↵ Working to contract specifications
- ↵ Documentation accompanying contracts such as schedules and the like

T11 Performance assessment and continuous improvement

T12 Engineering ethics principles

T13 Customer/Client relations encompassing:

Importance of customer/client relations

· Interpersonal skills that enhance customer/client

- ↵ Dispute resolution
- ↵ Customer/client relations strategies

T14 Electrical industry sector customs and practice encompassing:

- ↵ Equipment procurement, cost/benefit analysis and performance testing
- ↵ Typical approaches to planning and management
- ↵ Successful planning techniques
- ↵ Best practice management methods and styles

## Part 2 Project Planning

This unit covers development and documentation of large electrical project proposals, milestones and completions. The unit encompasses, establishing budgets, critical path analysis, development of workflow strategies, documenting, presenting and negotiating budgets and timelines.

### **KS01-EG170A Electrical project planning**

Evidence shall show an understanding of planning projects and analyzing progress to an extent indicated by the following aspects:

T1 Project planning encompassing:

T2 Purpose of project planning Evidence shall show an understanding of managing electrical projects to an extent indicated by the following aspects:

T3 Defining project parameters encompassing:

- ↵ Project scope
- ↵ Project stakeholders and clients
- ↵ Project phases and the relationship between phases
- ↵ Time requirements and limitations
- ↵ Resource requirements and limitations
- ↵ Quality requirements and limitations

T4 Time management concepts and standard practices

T5 Financial management encompassing:

Financial management concepts

- Standard practices for managing project finances
- Project budgets
- Costs
- variations and estimations
- Invoicing against project phases/deliverables
- Acquittals and the like

T6 Quality management concepts and practices

T7 Human Resource management concepts and practices within a project

T8 Communication management concepts and practices within a project

T9 Risk management and contingencies encompassing:

- Risk management concepts
- Internal risks
- External risks
- Contingencies
- Standard practices for managing risk within a project
- Risk minimisation
- Risk removal; and the like

T10 Procurement management concepts and practices

T11 Physical Resource management concepts and practices relating to equipment, technology, information and facilities

T12 Contracts encompassing:

- Contract format
- Contract content
- Interpreting contract clauses
- Legal obligations of contract parties
- Working to contract specifications
- Documentation accompanying contracts such as schedules and the like

T13 Performance assessment and continuous improvement

T14 Engineering ethics principles

T15 Customer/Client relations encompassing:

- Importance of customer/client relations
- Interpersonal skills that enhance customer/client
- Dispute resolution
- Customer/client relations strategies

T16 Electrical industry sector customs and practice encompassing:

- Equipment procurement, cost/benefit analysis and performance testing

## **REQUIRED SKILLS AND KNOWLEDGE**

- Typical approaches to planning and management
- Successful planning techniques
- Best practice management methods and styles

- ¬ Documents needed to plan a project
- ¬ Factors influencing sequence and restraints of project activities
- ¬ Critical path analysis covering graphical representation methods and methods of representing time/rates

#### T17 Critical path and project analysis encompassing:

- ¬ Purpose of critical path analysis
- ¬ Essential data
- ¬ Relational sequence of work activities
- ¬ Graphical representation methods
- ¬ Methods of representing time/rates
- ¬ Monitoring methods

#### T18 Electrical industry sector customs and practice encompassing:

- ¬ Equipment procurement, cost/benefit analysis and performance testing
- ¬ Typical approaches to planning and management
- ¬ Successful planning techniques
- ¬ Best practice management methods and styles

EE310

Engineering Officer Competency Report

This unit covers complying and producing an energy sector report. It encompasses determining the safety requirements are met and all regulatory responsibilities are adhered to. The person competent in this unit must demonstrate an ability to identify information sources and collect and analyse and format information applicable to the electrotechnology industry and produce a report as required.

#### **KS01-EE124A Energy sector detailed report writing**

Evidence shall show an understanding of analysis, decision making and reporting as they apply to engineering work functions to an extent indicated by the following aspects:

##### T1 Communicating with personnel encompassing:

- ¬ Oral communications
- ¬ Written procedures and work instructions

##### T2 Communicating with suppliers

##### T3 Communicating with customers

##### T4 Purpose and extent of maintaining work activities records in an enterprise encompassing:

- ¬ Types of records for maintaining work activities in an enterprise
- ¬ Methods for recording and maintaining work records

- ↵ Work records required by regulation requirements
- ↵ Using basic computer functions encompassing:
  - ↵ Starting up
  - ↵ Selecting application
  - ↵ Entering information
  - ↵ Saving
  - ↵ Printing

#### T5 Techniques of analysis encompassing:

- ↵ use of appropriate sampling techniques to collect data.
- ↵ types of data and classification.
- ↵ effective questionnaire design
- ↵ data collection errors.
- ↵ frequency tables.
- ↵ statistical diagrams – drawing and interpretation.
- ↵ the general shape of a frequency distribution.
- ↵ different types of diagrams.
- ↵ mean time between failures calculations

#### T6 Summary of statistics encompassing

- measures of central tendency
- measures of dispersion
- a 5-point summary for a given data set, box and whisker plot distribution
  - ↵ data sets comparison using measures of centre and spread
  - ↵ the effect of outliers on measures of centre and spread
  - ↵ use computer programs or calculators to simplify calculations

#### T7 Correlation and regression encompassing:

- ↵ bivariate data and scatter diagrams.
- ↵ product-moment correlation coefficient calculation and interpretation.
- ↵ difference between causation and correlation.
- ↵ equations of regression lines from bivariate data with a calculator and line plotting on a scatter diagram.
- ↵ using the equation of regression to make predictions in practical situations.
- ↵ investigation of practical problems using correlation and regression.

#### T8 Investigation and reporting encompassing:

- ↵ presentation of a well formatted report with a clearly stated aim.
- ↵ using the internet to obtain relevant data.
- ↵ description of the statistical method and design chosen to meet the aim of the investigation.
- ↵ statistical analysis and results reporting.
- ↵ evaluation and interpretation of the results of the investigation.
- ↵ discussion of the investigation with reference to real world applications.
- ↵ chronology of the investigation.



## Diploma in Information Technology (Course Outline)

		St Clements+ Highlight Course	Pt				Australian IT Diploma Course
		<b>THEORETICAL TRAINING</b>					
	<a href="#">ICT 101</a>	<a href="#">Information Technology Fundamentals</a>	3		GC	ICAICT501A	Research and review hardware technology options for organisations
	<a href="#">ICT 102</a>	<a href="#">Computer Applications and Operations</a>	2		GC	ICASAS509A	Provide client IT support services
					GC	ICASAS503A	Perform systems tests
	<a href="#">ICT 103</a>	<a href="#">Applied Programming</a>	5	BAE601	GB	ICAPRG523A	Apply advanced programming skills in another language
	<a href="#">ICT 104</a>	<a href="#">Program Project</a>	5	BAE601	GB	ICAPRG502A	Manage a project using software management tools
					GC	ICAICT510A	Determine appropriate IT strategies and solutions
					GD	ICAWEB507A	Customise a complex IT content management system
					GG	CAPMG501A	Manage IT projects
	<a href="#">ICT 105</a>	<a href="#">Systems Analysis and Programs</a>	5	BAE603	Core	ICAICT509A	Gather data to identify business requirements
					GC	ICAICT502A	Develop detailed component specifications from project specification
					Core	ICAICT511A	Match IT needs with the strategic direction of the enterprise
	<a href="#">ICT 106</a>	<a href="#">Software Engineering</a>	5	BAE603	GB	ICAPRG502A	Manage a project using software management tools
					GB	ICAPRG510A	Maintain custom software
					GB	ICAPRG512A	Prepare for the build phase of an IT system
	<a href="#">ICT 107</a>	<a href="#">Business Information Systems</a>	5		GA	ICANWK501A	Plan, implement and test enterprise communication solutions
			30				
		<b>WORK PERFORMANCE</b>					
	Task 1	Provide the OHS Procedure in workplace			Core	BSBOHS509A	Ensure a safe workplace
	Task 2	Provide the procedure to maintain the IT equipments in workplace			Core	BSBSUS501A	Develop workplace policy and procedures for sustainability
	Task 3	Take the record of sound & picture from an event			GE	ICAGAM504A	Manage interactive media production
	Task 4	Take the digital video by using digital camera & edit/convert to other formats by provided software			GF	CADMT501A	Incorporate and edit digital video

## Advanced Diploma in Information Technology (Course Outline)

		St Clements+ Highlight Course	Pt				Australian IT Diploma Course
		<b>THEORETICAL TRAINING</b>					
	<a href="#">ICT 201</a>	<a href="#">Organisational Behaviour</a>	5			BSBWOR502B BSBMGT516A BSBSUS501A	Ensure team effectiveness Facilitate continuous improvement Develop workplace policy and procedures for sustainability
	<a href="#">ICT 202</a>	<a href="#">Information Systems Principles and Networking</a>	5	BAE602		ICANWK516A ICANWK532A ICANWK614A	Determine best-fit topology for a local network Identify and resolve network problems Manage IT security
	<a href="#">ICT 203</a>	<a href="#">Information Systems, Analysis and Design</a>	5	BAE602	2	ICAPRG602A ICAICT509A	Manage the development of technical solutions from business specif Gather data to identify business requirements

						ICAICT603A ICAICT608A ICAPMG606A ICAICT713A	Manage the use of appropriate development methodologies Interact with clients on a business level Manage IT project quality Manage IT services
	<a href="#">ICT 204</a>	<a href="#">Advanced Programming</a>	5	BAE601		ICAPRG527A ICAPRG501A ICAPRG505A	Apply intermediate object-oriented language skills Apply advanced object-oriented language skills Build advanced user interface
	<a href="#">ICT 205</a> ICT 206	<a href="#">Project Work</a> <b>WORK PERFORMANCE</b> <b>ASSESSMENT</b>	5	BAE602	Core Core Core Core Core Core	ICAPRG506A ICAPMG601A ICAPMG602A ICAPMG603A ICAPMG604A ICAPMG605A	Manage copyright, ethics and privacy in an IT environment Establish IT project governance *Manage IT project initiation *Manage IT project planning *Manage IT project delivery *Manage IT project closure
		Total	30				

	ICT 101	Information Technology Fundamentals
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#### **Structure of computer**

[IntroductionToComputerHardware](#)

#### **Advanced Hardware**

Architecture  
Connect Internal Hardware  
Requirement for a good computer  
Hard Drive Controller  
Mother  
System Bus  
CPU  
Power Supply & Surge Protector  
Computer Repair  
Computer Network

	ICT 102	Computer Applications and Operations
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#### **Word**

Creating\_Web\_Pages\_in\_Word\_  
Customize\_the\_Word\_\_Environment  
Editing\_a\_Document\_in\_Word  
Formatting\_Paragraphs\_in\_Word  
Formatting\_Text\_in\_  
Graphics in Word  
Lists in Word  
Macros in Word  
Page Formatting in Word  
Proof Reading Document in Word  
Reference Citation Word  
Table Contents Word  
Track Change Word  
Word Style

#### **Excel**

Class Notes-Basic Excel  
Advanced Excel  
Class Notes-Basic Access  
Advanced Access

#### **Power Point**

## AutoCAD

AutoCAD Class Notes-HTML File  
Advanced AutoCAD

## **BAE 601 Computer Programming ( 3 pt )**

### Part (1) Overview Knowledge of the subject

Select any of the following textbooks

- C Programming
- C++ Programming
- C# Programming
- Object Oriented Programming
- C Programming in Linux

IT 401 Object Oriented Programming ( 1 pt)

IT 402 Structured Programming ( 1 pt)

IT 403 Visual Basic Programming ( 1 pt)

For [ICT 204 Advanced Programming](#) & [ICT 104 Program Projects](#)

More detailed aspects of programs are to be written

## **BAE 602 Computer Network ( 1 pt )**

Computer Network

Peer to peer networking

Client server networking

Network hardware

Network cable

Hub

Wired network

Wireless network card

Firewall

Wiring the network

Wiring the network

Running the network program

Viewing network connection

Network set up on additional computers

Viewing network connection

Introduction

Network model

Data and signals

Data and signals

Data rate limit

Performance

Digital transmission

Digital transmission

Analog transmission

Analog transmission

Bandwidth utilization/ Multiplexing/  
Spreading  
Bandwidth utilization/ Multiplexing/  
Spreading  
Transmission media  
Error detection & correction  
Error detection and correction  
Defining needs  
Area covered  
Organization information requirement  
System VS Procedure  
Types of systems  
What are the systems?  
Infrastructure  
Support system  
Data mart  
Organizational structure  
Planning for system development  
System design  
Security of information system  
Risk management

For **ICT 203 Information System Analysis & Design**  
practical aspect of design the network system for given  
information system is to be performed

### **BAE 603 Software Engineering ( 2 pt )**

Introduction  
Software process  
Feasibility study  
Project management  
Documentation, Requirement analysis  
Requirement specification  
Business/ Legal aspect  
Source code management  
Formal specification  
Object oriented design 1  
Object oriented design 2  
Object oriented design 3  
System Architecture 1  
System Architecture 2  
System Architecture 3  
Design for utility  
Performance of computer system  
Coding standard/ Tools for designing 1  
Dependable system 1 Reliability  
Dependable system 2 Validation  
Law aspect  
Risks in software engineering  
Software engineering as engineering

## Nano Technology

What is Nano technology?

Motivation for Nano technology

Scaling laws

Nano technology

For

[ICT 105](#)

[Systems Analysis and Programs](#)

Analysing the system used & preparing the software & hardware required to perform the analysed system are to be executed.

ICT 107

Business Information Systems

- What is Organization?
- Need for Organization
- Data vs. Information
- Information Quality Checklist
- Organization & Information Requirements
- Nature of Business & Information Requirements
- Systems vs. Procedures
- Computer based Information System (CBIS)
- Cross-Functional Coordination
- Transaction Processing System
- Data Processing Tasks
- Management Information System
- Data Warehouse
- Data Mart
- Online Analytical Processing (OLAP)
- Data Mining
- Knowledge / Intelligent Systems
- Components of an Expert System
- Key CRM Tasks
- Organizational Structure
- Planning Productions/Operations
- Accounting & Financial Information Systems
- Decision-making process
- Business planning

ICT 201

Organisational Behaviour

- Explain work organizations, their basic characteristics and their connections to the wider social context.
- Define the term organizational behaviour and describe the contribution to the field of organizational behaviour of three disciplines; psychology, sociology and anthropology.
- Describe the evolution of organizational behaviour as a field of research and learning.
- Explain an integrated framework for conceptualizing organizational behaviour.
- Describe the challenges of conducting research on organizational behaviour.
- **What is OB?**

- **Why study OB (I)?**
- Work organization
  - The behaviour of individuals and groups
  - Organizational design and technology in which human behaviour takes place
- Control processes over resources, people and work activities
- Management processes, for example, the recruitment, training & rewards to workers
- Interaction between the organizational, the external and evaluative context
- Relationship between organizational agency and societal stability or instability at large
- the environmental forces as external context inputs;
- the processes for converting the inputs into outputs within an individual, group managerial milieu as the organizational context
- the evaluation or organizational process as evaluation outputs
- a feedback loop which links the organizational processes and external environmental forces, with the feedback flowing into the organization and from the organization into the environmental external context
- The multidisciplinary nature of organizational behaviour
- Diversity
- Ways of approaching OB
- Ways of approaching research
- Ways of researching OB

## **COURSE OBJECTIVES**

[DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[DIPLOMA IN INFORMATION TECHNOLOGY](#)

[DIPLOMA IN MANAGEMENT](#)

[ADVANCED DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[ADVANCED DIPLOMA IN INFORMATION TECHNOLOGY](#)

[ADVANCED DIPLOMA IN MANAGEMENT](#)

[PROFESSIONAL DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[PROFESSIONAL DIPLOMA IN INFORMATION TECHNOLOGY](#)

[PROFESSIONAL DIPLOMA IN BUSINESS MANAGEMENT](#)

**Diploma in Electrical Engineering**

**Diploma in Mechanical Engineering**

**Diploma in Civil Engineering**

**Diploma in Computer Engineering**

**Diploma in Renewable Energy Engineering**

**[Diploma in Engineering \(Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology\) Course Outlines](#)**

IQY Technical College's one year Diploma in Engineering is designed to train the students to work as Engineering Associate or Engineering Technicians in wide ranges of industries.

It is designed to provide the following competencies.

To train the students to have a wide range of functions within engineering enterprises and engineering teams.

The training includes feasibility investigation, scoping, establishing criteria/performance measures, assessing and reporting technical and procedural options; design and development; component, resources and materials sourcing and procurement; construction, prototyping, manufacture, testing, installation, commissioning, service provision

and de-commissioning; tools, plant, equipment and facilities acquisition, management, maintenance, calibration and upgrades; operations management; procedures documentation; presentation and reporting; maintenance systems design and management; project and facility management; quality assurance, costing and budget management; document control and quality assurance.

The training is designed for the students

- To be closely familiar with standards and codes of practice, and to become expert in their interpretation and application to a wide variety of situations.
- To develop very extensive experience of practical installations, and may well be more knowledgeable than Professional Engineers or Engineering Technologists on detailed aspects of plant and equipment that can contribute very greatly to safety, cost or effectiveness in operation.
- To develop high levels of expertise in aspects of design and development processes. These might include, for example, the use of advanced software to perform detailed design of structures, mechanical components and systems, manufacturing or process plant, electrical and electronic equipment, information and communications systems, and so on.
- To do the construction of experimental or prototype equipment.
- To develop detailed practical knowledge and experience complementing the broader or more theoretical knowledge of others.

The training is also designed to provide a good grounding in engineering science and the principles underlying their field of expertise, to ensure that their knowledge and skills are portable across different applications and situations within the broad field of practice. Equipment, vendor or context-specific training in a particular job are not sufficient to guarantee generic competency. Given a good knowledge base, however, the graduates may build further on this through high levels of training in particular contexts and in relation to particular equipment.

The competencies of graduates to equip them to certify the quality of engineering work and the condition of equipment and systems in defined circumstances, laid down in recognised standards and codes of practice.

The training is also designed to lead or manage teams appropriate to these activities. Some may establish their own companies or may move into senior management roles in engineering and related enterprises, employing Professional Engineers, Engineering Technologists, and other specialists where appropriate.

#### **Diploma in Engineering can be studied in the following specializations**

- Diploma in Electrical Engineering
- Diploma in Mechanical Engineering
- Diploma in Civil Engineering
- Diploma in Renewable Energy Engineering
- Diploma in Computer Engineering / Diploma in Information Technology

#### **Diploma in Electrical Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Electrical Engineering. The completion of this program can be articulated into 60 points Advanced Diploma in Electrical Engineering & 120 credit points Professional Diploma in Electrical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Electrical Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### **Study Areas**

Electrical circuits, Basic Electronics, Mathematics, Physics, Electrical Wiring, Electrical Machines, Electro-magnetism, Computer Applications, Control System, Process Control, Electrical Contracting, Solar Electrical System, Electrical Drafting

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Electrical Engineering Course Outline**

<http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc>



## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Mechanical Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Mechanical Engineering. The completion of this program can be articulated into 60 points Advanced Diploma in Mechanical Engineering & Mechatronics & 120 credit points Professional Diploma in Mechanical Engineering & Mechatronics which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Mechanical Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Mathematics, Physics, Machine Principle, Electrical Circuits, Heat Transfer, Principle of Engines, Fluid Mechanics, Engineering Mechanics, Mechanical Drawing, Hydrocarbon, Wind Turbine, Polymer Science, Turbo Machinery, Basic Management

#### **Specialized Fields**

Automotive Engineering, Marine Engineering

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Mechanical Engineering Course Outline](http://www.highlightcomputer.com/Diploma_in_Mechanical_Engineering.doc)

[http://www.highlightcomputer.com/Diploma\\_in\\_Mechanical\\_Engineering.doc](http://www.highlightcomputer.com/Diploma_in_Mechanical_Engineering.doc)

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Civil Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Civil Engineering & Construction Studies . The completion of this program can be articulated into 60 points Advanced Diploma in Civil Engineering & 120 credit points Professional Diploma in Civil Engineering & Building Services which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Civil Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Mathematics, Physics, Electrical Principle, Fluid Mechanics, Hydraulics, Hydrology, Building Construction, Sanitation & Water Supply, Energy Efficient Building Design

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Civil Engineering Course Outline](http://www.highlightcomputer.com/Diploma_in_Civil_Engineering.doc)

[http://www.highlightcomputer.com/Diploma\\_in\\_Civil\\_Engineering.doc](http://www.highlightcomputer.com/Diploma_in_Civil_Engineering.doc)

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Renewable Energy Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Renewable Energy Course Completion Certificate which is delivered through the public seminars . The completion of this program can be articulated into 120 credit points Professional Diploma in Renewable Energy Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Renewable Energy Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

### Study Areas

Foundation Studies in Renewable Energy and Sustainability, Grid Connected Photovoltaic Power Systems, Solar and Thermal Energy Systems, Energy Storage Systems, Renewable Energy Resource Analysis, Wind Energy Conversion Systems, Energy System Efficiency

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Renewable Energy Engineering Public Seminar + Diploma & Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

### **Diploma in Computer Engineering/ Diploma in Information Technology**

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology & 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Computer Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Diploma in Computer Engineering, the students need to do Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

### Study Areas

IT Fundamental, Computer Application, Computer Programming, System Analysis, Software Engineering, IT Project, Business Information System

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Diploma in Information Technology Course Outline](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[http://www.highlightcomputer.com/Diploma in Information Technology Course outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Electrical Engineering Course Outline](http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc)

<http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc>

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

**Advanced Diploma in Electrical Engineering**

**Advanced Diploma in Mechanical Engineering**

**Advanced Diploma in Civil Engineering**

**Advanced Diploma in Computer Engineering**

**Advanced Diploma in Renewable Energy Engineering**

### **Advanced Diploma in Engineering (Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology) Course Outlines**

IQY Technical College's two years Advanced Diploma in Engineering is designed to train the students to work as Engineering Technologist in wide ranges of industries.

It is designed to provide the following competencies.

To train the students to operate within broadly-defined technical environments, and undertake a wide range of functions and responsibilities. They are often specialists in the theory and practice of a particular branch of engineering technology or engineering-related technology (the technology domain), and specifically in its application,

adaptation or management, in a variety of contexts. Their expertise often lies in familiarity with the current state of development of a technology domain and most recent applications of the technology.

The training is designed to provide expertise to the students which may be at a high level, and fully equivalent to that of a Professional Engineer. That is designed

- to exercise the same breadth of perspective as Professional Engineers, or carry the same wide-ranging responsibilities for stakeholder interactions, for system integration, and for synthesising overall approaches to complex situations and complex engineering problems.
- to possess for a strong understanding of practical situations and applications, with the intellectual challenge of keeping abreast of leading-edge developments as a specialist in a technology domain and how these relate to established practice. For this purpose Engineering Technologists need a strong understanding of scientific and engineering principles and a well-developed capacity for analysis.
- to apply current and emerging technologies, often in new contexts; or with the application of established principles in the development of new practice.
- To contribute to the advancement of technology.
- to take responsibility for engineering projects, services, functions and facilities within a technology domain, for specific interactions with other aspects of an overall operating context and for managing
- to contribute the specialist work to a broader engineering system or solution. In these roles, Engineering
- to focus on sustainable solutions and practices which optimise technical, social, environmental and economic outcomes within the technology domain and over a whole systems life cycle.
- to have an intimate understanding of the standards and codes of practice that underpin the technology domain and ensure that technology outcomes comply with statutory requirements. Engineering Technologists are required to interact effectively with Professional Engineers and Engineering Associates, with other professionals, tradespersons, clients, stakeholders and society in general, to ensure that technology outcomes and developments fully integrate with the overall system and context.
- to ensure that all aspects of a technological product, or operation are soundly based in theory and fundamental principle.
- to understand how new developments relate to their specific field of expertise.
- to interpret technological possibilities, to investigate interfaces, limitations, consequences, costs and risks.

The training is also designed to provide the skills of Engineering Technologists who may lead teams responsible for the implementation, operation, quality assurance, safety, management, and maintenance of projects, plant, facilities, or processes within specialist practice area(s) of the technology domain. Some Engineering Technologists may establish their own companies or may move into senior management roles in engineering and related enterprises, employing Professional Engineers and other specialists where appropriate.

The following competencies are outlined in the Advanced Diploma in Engineering Programs

#### 1. KNOWLEDGE AND SKILL BASE

- 1.1. Systematic, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the technology domain.
- 1.2. Conceptual understanding of the, mathematics, numerical analysis, statistics, and computer and information sciences which underpin the technology domain.
- 1.3. In-depth understanding of specialist bodies of knowledge within the technology domain.
- 1.4. Discernment of knowledge development within the technology domain.
- 1.5. Knowledge of engineering design practice and contextual factors impacting the technology domain.
- 1.6. Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the technology domain.

#### 2. ENGINEERING APPLICATION ABILITY

- 2.1. Application of established engineering methods to broadly-defined problem solving within the technology domain.
- 2.2. Application of engineering techniques, tools and resources within the technology domain.
- 2.3. Application of systematic synthesis and design processes within the technology domain.
- 2.4. Application of systematic approaches to the conduct and management of projects within the technology domain.

### 3. PROFESSIONAL AND PERSONAL ATTRIBUTES

- 3.1. Ethical conduct and professional accountability.
- 3.2. Effective oral and written communication in professional and lay domains.
- 3.3. Creative, innovative and pro-active demeanour.
- 3.4. Professional use and management of information.
- 3.5. Orderly management of self, and professional conduct.
- 3.6. Effective team membership and team leadership.

#### Advanced Diploma in Engineering can be studied in the following specializations

- Advanced Diploma in Electrical Engineering
- Advanced Diploma in Mechanical Engineering
- Advanced Diploma in Civil Engineering
- Advanced Diploma in Renewable Energy Engineering
- Advanced Diploma in Computer Engineering / Advanced Diploma in Information Technology

#### Advanced Diploma in Electrical Engineering

This program is designed with 60 credit points integrating 30 credit points Diploma in Electrical Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Electrical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Advanced Diploma in Electrical Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

##### Study Areas

Electrical Power Circuits, Electrical Power System, Mathematics, Physics, AC/DC Machines, Control System, Power System Protection, Energy Efficiency, Project Management, Advanced Electrical Drafting, Power Transmission Line, Engineering Officer Competency Report.

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

##### [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

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#### Advanced Diploma in Mechanical Engineering

This program is designed with 60 credit points integrating 30 credit points Diploma in Mechanical Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Mechanical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Advanced Diploma in Mechanical Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

##### Study Areas

Higher Mathematics, Fluid Dynamics, Automation & Robotics, Computer Aided Design & Manufacturing, Control System, Manufacturing, Mechatronics, Numerical Control, Pneumatics, Building Services. Air-conditioning Refrigeration

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Advanced Diploma in Civil Engineering**

This program is designed with 60 credit points integrating 30 credit points Diploma in Civil Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Civil Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Civil Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Surveying, Road & Bridges, Structure, Estimating, Electrical Installation, Electrical Wiring, Air-conditioning Refrigeration, Engineering Mechanics

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Advanced Diploma in Renewable Energy Engineering**

This program is designed with 60 credit points integrating 30 credit points Certificate in Renewable Energy Course Completion Certificate which is delivered through the public seminars . The completion of this program can be articulated into 120 credit points Professional Diploma in Renewable Energy Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Renewable Energy Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Advanced contents in Renewable Energy, Electrical Engineering, Basic Civil & Mechanical Engineering, Electrical Machines, Electronics Control

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

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### **Advanced Diploma in Computer Engineering/ Advanced Diploma in Information Technology**

This program is designed with 30 credit points integrating 30 credit points Diploma in Information Technology . The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Computer Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Advanced Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Advanced Diploma in Computer Engineering, the students need to do Advanced Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

#### Study Areas

Organizational Behaviour, IT Networking, Information System Analysis & Design, Advanced Programming, Project Work

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### Advanced Diploma in Information Technology Course Outline

[http://www.filefactory.com/file/7dmpqlotj2fn/n/Advanced\\_Diploma\\_in\\_Information\\_Technology\\_pdf](http://www.filefactory.com/file/7dmpqlotj2fn/n/Advanced_Diploma_in_Information_Technology_pdf)

#### Electrical Engineering Course Outline

[http://www.highlightcomputer.com/Diploma\\_&\\_Advanced\\_Diploma\\_in\\_Electrical\\_Engineering\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_&_Advanced_Diploma_in_Electrical_Engineering_Course_outline.doc)

#### Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs

<http://www.highlightcomputer.com/detailedcontent.htm>

**Professional Diploma in Electrical Engineering**

**Professional Diploma in Mechanical Engineering**

**Professional Diploma in Civil Engineering**

**Professional Diploma in Computer Engineering**

**Professional Diploma in Renewable Energy Engineering**

#### **Professional Diploma in Engineering (Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology) Course Outlines**

IQY Technical College's four years Professional Diploma in Engineering is designed to train the students to work as Engineering Technologist /Professional Engineer in wide ranges of industries.

It is designed at the same academic requirement as to Bachelor of Engineering degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Engineering can be awarded Bachelor of Engineering by the universities which are affiliated to IQY Technical College.

The program is designed to train the students to become Professional Engineers who are required to take responsibility for engineering projects and programs in the most far-reaching sense.

It is designed to provide the following competencies.

- To perform the reliable functioning of all materials, components, sub-systems and technologies used; their integration to form a complete, sustainable and self-consistent system; and all interactions between the technical system and the context within which it functions. The latter includes understanding the requirements of clients, wide ranging stakeholders and of society as a whole; working to optimise social, environmental and economic outcomes over the full lifetime of the engineering product or program; interacting effectively with other disciplines, professions and people; and ensuring that the engineering contribution is properly integrated into the totality of the undertaking.
- To do interpreting technological possibilities to society, business and government; and for ensuring as far as possible that policy decisions are properly informed by such possibilities and consequences, and that costs, risks and limitations are properly understood as the desirable outcomes.
- To bring knowledge to bear from multiple sources to develop solutions to complex problems and issues, for ensuring that technical and non-technical considerations are properly integrated, and for managing risk as well as sustainability issues. While the outcomes of engineering have physical forms, the work of
- To train the students to become predominantly intellectual in nature. In a technical sense, Professional Engineers are primarily concerned with the advancement of technologies and with the development of new technologies and their applications through innovation, creativity and change. Professional Engineers may conduct research concerned with advancing the science of engineering and with developing new principles and technologies within a broad engineering discipline.
- To contribute to continual improvement in the practice of engineering, and in devising and updating the codes and standards that govern it.

- To take a particular responsibility for ensuring that all aspects of a project are soundly based in theory and fundamental principle, and for understanding clearly how new developments relate to established practice and experience and to other disciplines with which they may interact. One hallmark of a professional is the capacity to break new ground in an informed, responsible and sustainable fashion.

The program is also designed to provide the skills required for the graduated to lead or manage teams appropriate to these activities, and may establish their own companies or move into senior management roles in engineering and related enterprises.

### **COMPETENCIES**

#### **1. KNOWLEDGE AND SKILL BASE**

- 1.1. Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline.
- 1.2. Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline.
- 1.3. In-depth understanding of specialist bodies of knowledge within the engineering discipline.
- 1.4. Discernment of knowledge development and research directions within the engineering discipline.
- 1.5. Knowledge of engineering design practice and contextual factors impacting the engineering discipline.
- 1.6. Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline.

#### **2. ENGINEERING APPLICATION ABILITY**

- 2.1. Application of established engineering methods to complex engineering problem solving.
- 2.2. Fluent application of engineering techniques, tools and resources.
- 2.3. Application of systematic engineering synthesis and design processes.
- 2.4. Application of systematic approaches to the conduct and management of engineering projects.

#### **3. PROFESSIONAL AND PERSONAL ATTRIBUTES**

- 3.1. Ethical conduct and professional accountability.
- 3.2. Effective oral and written communication in professional and lay domains.
- 3.3. Creative, innovative and pro-active demeanour.
- 3.4. Professional use and management of information.
- 3.5. Orderly management of self, and professional conduct.
- 3.6. Effective team membership and team leadership.

### **Professional Diploma in Engineering can be studied in the following specializations**

- Professional Diploma in Electrical Engineering
- Professional Diploma in Mechanical Engineering



- Professional Diploma in Civil Engineering
- Professional Diploma in Renewable Energy Engineering
- Professional Diploma in Computer Engineering / Professional Diploma in Information Technology

### **Professional Diploma in Electrical Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Electrical Engineering. The completion of this program can be awarded Professional Diploma in Electrical Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Electrical Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### **Study Areas**

Mathematics, Engineering Mechanics & Thermodynamics, Electrical Circuit Analysis, Electro-magnetics & Electrical Machines, Control System, Power System, Electronics, Telecommunication, Industrial Management, Computer Programming, Computer Network, Engineering Project, Building Services, Competency Demonstration Report Writing

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Bachelor of Engineering (Electrical Engineering) Course Outline**

<http://www.filefactory.com/file/5ftv3w6yjcrr/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

#### **Detailed Contents of BE.B Bus& B App Sc (IT) Programs**

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

### **Professional Diploma in Mechanical Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Mechanical Engineering. The completion of this program can be awarded Professional Diploma in Mechanical Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Mechanical Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### **Study Areas**

Mathematics, Engineering Mechanics & Thermodynamics, Industrial Management, Computer Programming, Computer Network, Engineering Project, Building Services, ,Air-conditioning & Refrigeration, Machine Design, Mechanical Instrumentation, Production Technology, Engineering Materials, Maintenance Engineering , Mechanical Power Generation, Applied Electrical/Electronics & Control System, Competency Demonstration Report Writing

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Bachelor of Engineering (Mechanical Engineering-Mechatronics) Course Outline**

[http://www.filefactory.com/file/113wg8regbuh/n/Bachelor\\_of\\_Applied\\_Engineering\\_Mechanical-Mechatronics\\_Course\\_Outline.doc](http://www.filefactory.com/file/113wg8regbuh/n/Bachelor_of_Applied_Engineering_Mechanical-Mechatronics_Course_Outline.doc)

#### **Bachelor of Applied Engineering (Final Year Mechanical Design) Course Outline**

[http://www.filefactory.com/file/7greuqxlvyh/n/Graduate\\_Diploma\\_of\\_Mechanical\\_Engineering\\_B\\_App\\_Eng\\_Mech\\_Course\\_Outline.doc](http://www.filefactory.com/file/7greuqxlvyh/n/Graduate_Diploma_of_Mechanical_Engineering_B_App_Eng_Mech_Course_Outline.doc)

#### **Detailed Contents of BE.B Bus& B App Sc (IT) Programs**

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

### **Professional Diploma in Civil Engineering**



This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Civil Engineering. The completion of this program can be awarded Professional Diploma in Civil Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Civil Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### Study Areas

Mathematics, Engineering Mechanics & Thermodynamics, Industrial Management, Computer Programming, Building Construction, Estimating, Fluid Mechanics, Structural Engineering, Reinforce Concrete, Timber Engineering, Soil & Rock Mechanics, Environmental Engineering, Road & Bridges, Building Service Engineering, Traffic Engineering, Surveying, Water Supply Sanitation, Engineering Competency Demonstration Report Writing.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Bachelor of Engineering \(Civil Engineering-Building Services\) Course Outline](http://www.filefactory.com/file/npjw5ekau5/Bachelor%20of%20Applied%20Engineering%20%28Civil-Building%20Services%29%20Course%20Outline.doc)

<http://www.filefactory.com/file/npjw5ekau5/Bachelor%20of%20Applied%20Engineering%20%28Civil-Building%20Services%29%20Course%20Outline.doc>

#### [Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline](http://www.filefactory.com/file/37twg21wx97z/Graduate%20Diploma%20of%20Civil%20Engineering%2BB%20App%20Eng%20%28Civil%29%20Course%20Outline.doc)

<http://www.filefactory.com/file/37twg21wx97z/Graduate%20Diploma%20of%20Civil%20Engineering%2BB%20App%20Eng%20%28Civil%29%20Course%20Outline.doc>

#### [Detailed Contents of BE, B Bus& B App Sc \(IT\) Programs](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

#### **Professional Diploma in Renewable Energy Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Renewable Energy Engineering. The completion of this program can be awarded Professional Diploma in Renewable Energy Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

This program explores the way to make the best use of renewable energy technologies including solar thermal systems, photovoltaics, wind and biomass. Renewable Energy Engineering borrows much of its structure from some other areas of engineering, such as electrical engineering and photovoltaic engineering. It encompasses a broad range of renewable energy technologies including electricity generation from solar thermal systems, photovoltaics, wind and biomass. It also covers solar architecture and energy efficient housing design

The graduates of Professional Diploma in Renewable Energy Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### Study Areas

Foundation Studies in Renewable Energy and Sustainability, Grid Connected Photovoltaic Power Systems, Solar and Thermal Energy Systems, Energy Storage Systems, Renewable Energy Resource Analysis, Wind Energy Conversion Systems, Energy System Efficiency, Mathematics & Physics, Engineering Materials, Civil & Mechanical Engineering, Electrical Engineering, Electrical Machines, Electronics Control, Design & Management, Project, Engineering Competency Demonstration Report Writing.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

#### **Professional Diploma in Computer Engineering/ Professional Diploma in Information Technology**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Information Technology . Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated IQY Technical College.

The graduates of Professional Diploma in Computer Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologist or ASEAN Engineer.

The graduates of Professional Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Professional Diploma in Computer Engineering, the students need to do some Bachelor of Engineering (Electrical) units at the same time.

#### Study Areas

##### Computer

Computer Programming, Computer Network, Software Engineering, Artificial Intelligence, Telecommunication Engineering, Project Management,

##### Electrical/Electronics

Electrical Engineering, Analog & Digital Control, Control System, Engineering Management

Engineering Competency Demonstration Report Writing

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

##### Detailed Contents of BE.B Bus& B App Sc (IT) Programs

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

##### Bachelor of Engineering (Electrical Engineering) Course Outline

<http://www.filefactory.com/file/5ftv3w6yjcrr/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

## **Diploma in information Technology**

### Diploma in Information Technology

This course will provide the students with the skills and knowledge to manage information and communications technology (ICT) support in small-to-medium enterprises using a wide range of general ICT technologies. The students will learn skills to support computer systems, involving people, hardware, software and procedures in a networked environment. They will also learn skills that enable them to maintain and guide teams and manage projects.

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology & 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Computer Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Diploma in Computer Engineering, the students need to do Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

#### Study Areas

IT Fundamental, Computer Application, Computer Programming, System Analysis, Software Engineering, IT Project, Business Information System

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

##### Diploma in Information Technology Course Outline

[http://www.highlightcomputer.com/Diploma\\_in\\_Information\\_Technology\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

##### Electrical Engineering Course Outline

[http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course\\_outline.doc](http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course_outline.doc)

##### Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs

<http://www.highlightcomputer.com/detailedcontent.htm>

## Advanced Diploma in information Technology

### Advanced Diploma in Information Technology

The Advanced Diploma in Information Technology provides the students with high level Information and Communications Technology (ICT) process improvement in senior ICT roles within organisations. The qualification builds on a base core of management competencies, with specialist and general elective choices to suit particular ICT and business needs, especially in the areas of knowledge management and systems development.

This qualification is suited to dynamic leaders who wish to broaden their business perspective, enhance management capability and strengthen leadership behaviour. The focus is on managing the strategic direction of a business through leadership, financial management and comprehensive business operations. It is ideal for those in senior management positions with responsibility for strategic leadership across the business or in specialist areas.

The following competencies are integrated in this course

- Provide leadership across the organisation
- Manage employee relations
- Develop and implement a business plan
- Manage organisational change
- Manage innovation and continuous improvement
- Manage risk
- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems at technologist level.
- to be project-focused with studies in programming languages, algorithms and information structure and develop the ability to process data or information in order to solve problems at technologist level.
- to provide team dynamics, presentation skills and project management at middle class manager level.
- The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology which is the award of Bachelor of Applied Science (Information Technology) or Bachelor of Information Technology degree by the universities affiliated to IQY Technical College.
- [Detailed contents of the units](#)

Detailed contents of the units can be viewed at the following links

[Advanced Diploma in Information Technology Course Outline.](#)

[http://www.highlightcomputer.com/Advanced Diploma in Information Technology.pdf](http://www.highlightcomputer.com/Advanced_Diploma_in_Information_Technology.pdf)

[Diploma in Information Technology Course Outline](#)

[http://www.highlightcomputer.com/Diploma in Information Technology Course outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Management Course Outline](#)

[http://www.highlightcomputer.com/Diploma of Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

## **Professional Diploma in Information Technology**

IQY Technical College's four years Professional Diploma in Information Technology is designed to train the students to work as computing professionals, to use ICT to be a better scientist, or to empower themselves to better understand the technology behind many of today's careers. Increasingly, employers see an ICT qualification as a sign of academic well-roundedness. ICT drives innovations such as the human genome project, vaccine research, environmental modelling. Emerging areas include electronic security, earth simulation (related to the mining boom) and bioinformatics. Independent job market surveys show that demand for graduates is escalating, along with salaries. Industry is concerned about a shortage of talent.

It is designed at the same academic requirement as to Bachelor of Information Technology degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Engineering can be awarded Bachelor of Applied Science (Information Technology) & Bachelor of Information Technology by the universities which are affiliated to IQY Technical College.

The graduates can apply for membership of International Institute of Science Engineering & Management.

The program is designed to train the students to become ICT Professionals who are required to take responsibility for ICT projects and programs in the most far-reaching sense.

It is designed to provide the following competencies.

- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems.
- to be project-focused with studies in programming languages, algorithms and information structure and develop the ability to process data or information in order to solve problems.
- to provide team dynamics, presentation skills and project management.

See the [course list](#) for courses that can be studied as part of the Bachelor of Information Technology.

## Study Areas

- [Computer Systems and Networks](#)
- [Enterprise Information Systems](#)
- [Human-Computer Interaction](#)
- [Software Design](#)
- [Software Information Systems](#)
- [Electrical Engineering for the award of Professional Diploma in Computer Engineering](#)

### [Detailed contents of the units](#)

Detailed contents of the units can be viewed at the following links.

### [Bachelor of Applied Science \(Computer Science & Computer Technology\)](#)

[http://www.highlightcomputer.com/B\\_App\\_Sci\\_\(CS&\\_CT\)\\_Course\\_outline.pdf](http://www.highlightcomputer.com/B_App_Sci_(CS&_CT)_Course_outline.pdf)

### [Bachelor of Engineering \(Electrical Engineering\) Course Outline](#)

<http://www.filefactory.com/file/5ftv3w6yjcrn/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

### [Professional Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline](#)

[http://www.highlightcomputer.com/Graduate\\_Diploma\\_of\\_Engineering\\_Practice\\_Computer\\_ControlUpdate%5b1%5d.doc](http://www.highlightcomputer.com/Graduate_Diploma_of_Engineering_Practice_Computer_ControlUpdate%5b1%5d.doc)

### [Detailed Contents of BE.B Bus& B App Sc \(IT\) Programs](#)

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

## Diploma in Management

IQY Technical College's one year Diploma in Management is designed to train the students to work as middle class managers in wide ranges of industries & companies.

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology or pure management stream. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology Management & 120 credit points Professional Diploma in Business Management which is the award of Bachelor of Business Management degree by the universities affiliated to IQY Technical College.

The graduates can apply for membership of The Institute of Professional Business and Technical Managers.

It is designed to provide the following competencies.

- To explore the factors for achieving success with a business, management is becoming increasingly challenging.

- To provide the planning on a [management career](#).
- To provide the understanding of the leadership process will form the foundation to build the management skills.
- To be able to effectively manage others to perform at their best while focusing on the growth of a business.
- This course can turn your management experience into a formal qualification, or it can up-skill you to get further ahead in your career.

This course will also train the students to develop a project plan, manage budgets and seek opportunities for further [business](#) improvement. The students will gain knowledge on how to liaise with stakeholders and ensure team effectiveness. This diploma also addresses the multiple challenges faced by managers in today's rapidly changing business environment and provides solutions and strategies to work under various business conditions.

This course is fully flexible with no assessment due dates or classes to attend. Structure your learning around students' current commitments and take the next step in their [business management](#) career.

## Potential career outcomes

- business manager
- team leader
- facilities coordinator
- department manager

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Management Course Outline](#)

[http://www.highlightcomputer.com/Diploma\\_of\\_Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](#)

<http://www.highlightcomputer.com/detailedcontent.htm>

## Advanced Diploma in Management

### Advanced Diploma of Information Technology Management

The Advanced Diploma in Information Technology Management provides the students with high level Information and Communications Technology (ICT) process improvement in senior ICT roles within organisations. The qualification builds on a base core of management competencies, with specialist and general elective choices to suit particular ICT and business needs, especially in the areas of knowledge management and systems development.

This program is designed with 60 credit points which is integrated with 30 points from Diploma in Information Technology or Diploma in Management.

- The students who complete Diploma in Information Technology attend the Diploma in Management units together with Advanced Diploma in Information Technology units and then can be graduated with Advanced Diploma in Information Technology Management.
- The students who complete Diploma in Management attend the Diploma in Information Technology units together with Advanced Diploma in Information Technology units and then can be graduated with Advanced Diploma in Information Technology Management.

It is designed to provide the following competencies.

The following competencies are integrated in this course

- Provide leadership across the organisation
- Develop and implement strategic plans
- Manage employee relations
- Develop and implement a business plan
- Manage organisational change
- Manage finances
- Manage innovation and continuous improvement
- Manage risk
- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems at technologist level.
- to provide team dynamics, presentation skills and project management at middle class manager level.

The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology or Professional Diploma in Business Management which is the award of Bachelor of Applied Science (Information Technology), Bachelor of Information Technology or Bachelor of Business Management degree by the universities affiliated to IQY Technical College.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links

[Advanced Diploma in Information Technology Course Outline.](#)

[http://www.highlightcomputer.com/Advanced\\_Diploma\\_in\\_Information\\_Technology.pdf](http://www.highlightcomputer.com/Advanced_Diploma_in_Information_Technology.pdf)

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[Diploma in Information Technology Course Outline](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)  
[http://www.highlightcomputer.com/Diploma\\_in\\_Information\\_Technology\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Management Course Outline](http://www.highlightcomputer.com/Diploma_of_Management.doc)  
[http://www.highlightcomputer.com/Diploma\\_of\\_Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

## Professional Diploma in Management

## **Professional Diploma in Business Management**

Professional Diploma in Business (Management) is a highly innovative and flexible program that is designed to develop professional capabilities for tomorrow's managers and business leaders.

As well as providing the operational skills and knowledge required to manage successful organisations, students also participate in workplace learning subjects that provide real-life, practical experience.

An optimum blend of theory and practice is offered, with a combination of subjects to develop both soft skills for working with people and hard skills directed at areas in operations and project management.

This course is designed with 120 Credit points integrating 60 Points Advanced Diploma in Information Technology Management.

It is designed at the same academic requirement as Bachelor of Business Management degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Business (Management) can be awarded Bachelor of Business by the universities which are affiliated to IQY Technical College.

The graduates of Professional Diploma in Business (Management) can apply for Membership of Institute of Professional Business and Technical Managers.

## Course structure

[Bachelor of Business /Bachelor of Applied Management Course Outline](http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc)  
<http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc>

[Detailed Contents of BE.B Bus& B App Sc \(IT\) Programs](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)  
[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)





**Mon's Group Sydney** (Education Service-Engineering, IT & Management) (ABN 96219389279)

Trading as IQY Technical College

[www.highlightcomputer.com/mongroupsyzdney1.htm](http://www.highlightcomputer.com/mongroupsyzdney1.htm)

Highlight Computer Group affiliated to St Clements University Higher Education School-Niue, S.T.C Technological University of British West Indies and IQY Technical College Online Learning System

[www.highlightcomputer.com](http://www.highlightcomputer.com)

[www.stclements.edu](http://www.stclements.edu)

[www.stclements.edu/myanmar](http://www.stclements.edu/myanmar)

[www.stclementstu.com](http://www.stclementstu.com)

Arrangements among Myanmar Vocational Training Certificate/IQY Technical College/St Clements

University and STC Technological University

[www.facebook.com/iqytechnicalcollege](https://www.facebook.com/iqytechnicalcollege)

About the IQY Technical College & Highlight Computer Group

IQY Technical College of Highlight Computer Group teaches St Clements University –Higher Education School-Niue & S.T.C Technological University of British West Indies' Diploma/ Advanced Diploma and Bachelor Degree programs in Electrical ,Mechanical, Civil, Automotive & Marine Engineering, Information Technology and Management courses to the students of Myanmar at the price affordable to average working class people of Myanmar for development of Myanmar.

IQY Technical College is also an Authorized Training Centre of Singapore Institute of Engineering Technologists & it's Engineering Qualification awards are recognized in Singapore

Click HERE to access the course information back up site

# IQY QUALIFICATIONS FRAMEWORK

[www.highlightcomputer.com/iqyqualificationsframework.pdf](http://www.highlightcomputer.com/iqyqualificationsframework.pdf)

<a href="#">Program Enrolment</a>	<a href="#">Contact</a>	<a href="#">Curriculum Engineering IT Management</a>	<a href="#">Syllabus Engineering IT Management</a>	<a href="#">Renewable Energy Programs</a>	<a href="#">Masters Degree Programs</a>	<a href="#">Internationally Recognised Programs + Advertisements</a>	<a href="#">Advertisements</a>	<a href="#">Pre- vocational Programs</a>
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[Professional  
Engineer  
Support  
Masters  
Degree  
Enrolment  
Form](#)

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Form  
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[Questions &  
Answers](#)

[IQY Structure](#)

[Contacts:](#)

(Australia)

[Head Office Address](#)

Daw Hla Myat Mon-Phone: 61-424533344  
PO BOX 227 Marrickville, NSW 1475  
Sydney, Australia

**E mail**

iqytechnicalcollege@gmail.com

(Yangon)

**E –Learning / Tutoring / Trade Training Centre Addresses**

**South Okkalapa**

**Address 1**

No 307 (B) Thura 2 Street, 9 Ward, South Okkalapa Township, Yangon

Please See MAP- [www.highlightcomputer.com/iqymap.pdf](http://www.highlightcomputer.com/iqymap.pdf)

**Contact: 09-448009297/ 09772644954 & 09402679529**

**Address 2**

No 703 Myitta Street, 12 Ward , South Okkalapa Township, Yangon

**Contact: U Kyaw Zin Thet Mobile: 09772644954 & 09402679529**

**E mail**

Ukyawzinthet547@gmail.com

**Yankin**

**Contact 0973147176**

**Address-Building 217 Room 9 Yankin, Yangon**

**Special Training & Resources Centre / E Library**

No 33 , Third Floor Left, Dagon Thiri Street, Kyauk-myaung, Tamwe Township, Yangon  
Please See MAP- [www.highlightcomputer.com/iqymap1.pdf](http://www.highlightcomputer.com/iqymap1.pdf)

[www.highlightcomputer.com/iqymap.pdf](http://www.highlightcomputer.com/iqymap.pdf)

### Yazana Garden City, Dagon Seik-Kan Township

Building 28, Room 404 , 5<sup>th</sup> Floor, 8<sup>th</sup> Street, Group (B), 94 Ward,  
Yuzana Garden City, Dagon Seik-Kan Township

## COMPUTER TRAINING + COMPUTER UNIVERSITIES COURSES STUDY SUPPORT

### IT Training Kyauk-Myaung Centre Address

**Contact: U Htin Aung -----Mobile: 09783970071**

No 23 ( 6<sup>th</sup> Floor) Myothit 1 st Street, Kyauk-myaung  
Tamwe Township, Yangon, Myanmar

### E mail

highlightcomputergroup@gmail.com

(Mandalay)

## IQY Mandalay Technical College

Swe Tha Har Plantation Garden

Ayeyarhtun 1 st Ward, Near Nagani Pagoda, Chanmyatharsi Township, Mandalay

### **Contact**

Daw Soe Soe Aung---Mobile: **09976731167**

E mail- **soesoeaung927@gmail.com,**

Daw Aye Myat Soe—Mobile **09402612805**

E mail- **ayemyat2014@gmail.com**,

**Overseas Contact**

iqytechnicalcollege@gmail.com

Phone: 61-424533344

**PO BOX 227, Marrickville, NSW 1475, Sydney, Australia**

**Affiliated Training Centres / Colleges/ SchoolsAddresses**

**Engineering Software Applications + English Language Training**

**Trust Training Center**

Building 6, Room 20 (Top Floor of a four storey building), Lanthit Yeikthar Housing, Phonegyi Road (Sanpya), Lanmadaw Township, Yangon.

**EduGate Training Center**

No.96,1st Floor, Hlae-Dan Street, Lanmadaw Township, Yangon

[www.elearning-myanmar.com](http://www.elearning-myanmar.com)

<https://www.facebook.com/Elearning.mm>

**Contact**

U Aung Myint Myat (Andrew Aung)

E-mail : **andrewmyintmyat@gmail.com**

**Mobile:** 09422540237

**IQY Mandalay Technical College's affiliated school**

**Aung Tharaphu Education House**

**In front of SHS 34 (Bonekyaw School), under U Phwar Bridge,  
Highway to Sagaing, Mandalay**

**+**

**Contact**

Daw Soe Soe Aung---Mobile: **09976731167**

E mail- **soesoeaung927@gmail.com,**

Daw Aye Myat Soe—Mobile **09402612805**

E mail- **ayemyat2014@gmail.com,**

## UPDATED COURSES

Click the following link to view the updated courses

<http://iqycoursesupdate.blogspot.com.au/>

VIDEO (MYANMAR) FOR THE OFFERED COURSES

[www.iqytechnicalcollege.com/IQYIPEMCourseInformation.htm](http://www.iqytechnicalcollege.com/IQYIPEMCourseInformation.htm)

[IQY Technical College Programs and Career](#)

### Offered Courses

**[Bachelor of Engineering/ Professional Diploma in Engineering Courses](#)**

**[Advanced Diploma/ Diploma in Engineering Courses](#)**

**[Bachelor of Applied Management/ Bachelor of Business Management /Professional Diploma in Management Courses](#)**

**[Advanced Diploma/ Diploma/ Certificate in Management & Business Courses](#)**

**[Bachelor of Applied Science Information Technology /](#)**

**[Professional Diploma in Information Technology Courses](#)**

**[Advanced Diploma/ Diploma/Certificate in Information Technology Courses](#)**

**[Self Study CPD Online Courses](#)**

**[Double Degrees Program](#)**

**[Bachelor of Education/ Diploma in Education/ Diploma in Teaching /Professional Diploma/Master Diploma/Masters degree in Education Courses](#)**

**[Bachelor of Humanities Studies/ Diploma in Humanities Studies / Advanced Diploma in Humanities Studies/ Professional Diploma in Humanities Studies / Masters Diploma & Master of Humanities Studies Courses](#)**

**[Graduate Diploma/ Master Diploma/ Master of Engineering Courses](#)**



[Graduate Diploma/ Master Diploma/ Master of Applied Science \(Information Technology\) Courses](#)

[Graduate Diploma/ Master Diploma/ Master of Management Courses](#)

[Diploma in Doctorate Studies/ Doctor of Philosophy Programs](#)

[Engineering Trades Practical Courses](#)

[Vocational Education Certificate Courses \(Non Engineering\)](#)

[Diploma/Advanced Diploma and Bachelor of Work Studies](#)

[IQY Technical College Rural Development Engineering Program](#)

[Myanmar Vocational Training Certificate Courses](#)

[Professional Engineer Support Program](#)

[Renewable Energy Programs](#)

[Certificate II, III, IV in Workplace English + Engineering & Diploma to Associate Degree in Engineering Practice Course](#)

[International Engineering & Engineering Trades Support Program](#)

[Physical Education-Fitness Program](#)

[Engineering Design / BE \(TU\) Final Year Thesis/ Internship Report/Project Support Program](#)

[International Vocational Education Courses](#)

[Language](#)

BE/ Professional Diploma in Engineering Courses

Live Lesson Courses

[Advanced Diploma in Electro-mechanical and Construction Engineering \(45667\)](#)

[Bachelor of Technology/Professional Diploma in Engineering Technology in Electrical/Civil/Mechanical and Renewable Energy Engineering \(65667\)](#)

[Bachelor of Engineering/Professional Diploma in Engineering in Electrical/Civil/Mechanical and Renewable Energy Engineering \(65668\)](#)

### **Personal Attendance, Guided Study and Self Study e-Learning Courses**

[Professional Diploma in Engineering \(Electrical/ Civil/Mechanical with Renewable Energy\)](#) (Course 67110A/67111A)

[Professional Diploma +BE Automotive Engineering \(6722113\)](#)

[Diploma/Advanced Diploma /Professional Diploma in Renewable Energy Engineering \(Course 27333,37333, 67333\)](#)

[Professional Diploma in Electrical Engineering \(Electrical Power & Electronics\)](#) (60115)

[Professional Diploma in Industrial Engineering+BE\(Industrial Engineering\) \(677889\)](#)

[Professional Diploma in Structural Engineering/ Master of Science \(Structural Engineering\) \(677553/7776654\)](#)

[Professional Diploma/ Advanced Diploma in Engineering  
\(Engineering Practice\) for Diploma/AGTI/BTech/BE Degree holders](#)

### **IQY Construction and Civil Specialist Skills Courses**

**Professional Diploma for 3 Years AGTI**

**AGTI to BE Conversion Program**

(Course 67110/67111)

**Arrangement of BTech and BE Courses for Instalment payments**

**Bachelor of Technology Program (56778)**

**Career Conversion Courses for BE/BTech/AGTI/City & Guild Diplomas**

**SELF STUDY ENGINEERING PROFESSIONAL DIPLOMA PROGRAMS**

[Professional Diploma in Architectural Engineering \(60116\)](#)

[Professional Diploma in Metallurgical & Materials Engineering \(60216\)](#)

[Professional Diploma in Mineral Extraction & Explosion Protection Engineering \(Combined Mining & Petroleum Course\) \(60316\)](#)

[Professional Diploma in Chemical Engineering \(60416\)](#)

[Certificate in Occupational Health and Safety \(12128\)](#)

[Professional Diploma in Hazardous Safety Engineering \(60814\)](#)

[Diploma in Hazardous Safety Engineering \(39919\)](#)

[Professional Diploma in Automotive and Mechanical Engineering \(63111\), Professional Diploma in Marine and Mechanical Engineering \(63112\)](#)

[Professional Diploma in Naval Architectural Engineering \(63113\)](#)

[Professional Diploma in IT \(Network\) \(63347\), BE \(ICT-Network\)\(63348\)](#)

**[Bachelor Degree Programs \(St Clements University Higher Education School &](#)**

**[STC Technological University of British West Indies\)](#)**

[Bachelor of Engineering \(Electrical/ Civil/ Mechanical with Renewable Energy\) Course outline](#)

[Bachelor of Engineering \(Electrical Engineering\) Course Outline \(60114/61112\)](#)

[Bachelor of Engineering \(Mechanical Engineering-Mechatronics\) Course Outline \(61012/61512\)](#)

[Bachelor of Engineering \(Civil Engineering-Building Services\) Course Outline \(60912/61412\)](#)

[Bachelor of Engineering \(Renewable Energy\) \(67333A\)](#)

[Bachelor of Engineering \(Computer Aided Engineering\) with Electrical/Civil/Mechanical \(6889907\)](#)

**[Graduate Diploma / Graduate Bachelors Degree Programs](#)**

[Graduate Diploma of Civil Engineering + Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline \(70214/71215\)](#)

[Bachelor of Engineering \(Civil\) Course outline \(60214/61212\)](#)

[Bachelor of Engineering \(Mechanical\) Course outline \(60314/61312\)](#)

[Graduate Diploma of Mechanical Engineering + Bachelor of Applied Engineering \(Final Year Mechanical Design\) Course Outline \(70314/71415\)](#)

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[Bachelor of Engineering Management Course Outline \(66213\)](#)

[Bachelor of Engineering \(Mechanical Engineering Management\) /Professional Diploma in Mechanical Engineering and Management Course \(38811/68811\)](#)

[Graduate Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline\(70714\)](#)

[Scholarship Application Form for Volunteer Teachers](#)

## **Advanced Diploma/ Diploma in Engineering Courses**

### **[Diploma Programs \(IQY Technical College\)](#)**

[Electrical Engineering Course Outline \(20112/30112/30112\)](#)

[Mechanical Engineering Course Outline \(20312/30312/40313\)](#)

[Civil Engineering Course Outline \(20212/30212/40213\)](#)

[Automotive Engineering Course Outline \(30512\)](#)

[Diploma in Computer Aided Engineering \(3556678\)](#)

-

[Advanced Diploma in Engineering Design \(Electrical/Civil/Mechanical\) \(30915/31015/31115\)](#)

[Diploma / Advanced Diploma in Air-conditioning and Refrigeration Engineering \(28775/38775\)](#)

[Advanced Diploma in General Engineering and Drafting \(with Basic Business and IT\) \(32115\)](#)

For the students who have not passed Year 10/ University Entrance Examination.

Tutoring for the university entrance examination level subjects are concurrently provided

[Advanced Diploma in Engineering \(Myanmar Language\)\(27764\)](#)

[Advanced Diploma in Electro-mechanical and Construction Engineering \(27765\)](#) [\(Course for THS/ITC/Matured Workers\)](#)

[Diploma in General Engineering + Advanced Diploma in Mechanical Electrical and Civil Engineering](#)

[Diploma in Engineering \(Drafting and Design\) \(20915\)](#)

[Diploma/Advanced Diploma in Engineering \(Trade\) Practice Courses for  
experienced workers in Myanmar](#)

[Marine Engineering Course Outline \(30612\)](#)

[Diploma in Telecommunication Engineering \(30116\)](#)

[THS Certificate to IQY Advanced Diploma+ Degree Program](#)

**Bachelor of Applied Management/ Bachelor of Business Management /Professional Diploma in Management Courses**

[\*\*Bachelor Degree Programs \(St Clements University Higher Education School &\*\*](#)

[\*\*STC Technological University of British West Indies\)\*\*](#)

[Bachelor of Business /Bachelor of Applied Management Course Outline\(66113/66515\)](#)

[Bachelor of Engineering Management Course Outline \(66213\)](#)

**Advanced Diploma/ Diploma/ Certificate in Management & Business Courses**

[Management Course Outline \(26113/36113/46114\)](#)

[Certificate in Financial Management \(26315\)](#)

-

[Certificate in Financial Management Learning Support Website\(26315\)](#)

[Business Management Programs](#)

[UK Business Courses](#)

[Certificate/ Diploma in Tourism Management \(214467\)](#)

**Bachelor of Applied Science Information Technology /  
Professional Diploma in Information Technology Courses**

**[Bachelor Degree Programs \(St Clements University Higher Education School &  
STC Technological University of British West Indies\)](#)**

[Bachelor of Applied Science \(Computer Science & Computer Technology\)](#)  
(63112/63212)

**Advanced Diploma/ Diploma/Certificate in Information Technology Courses**

[Information Technology Course Outline \(23112/33112/43113\)](#)

[Certificate in Information Technology Course Outline \(23112\)](#)

[Diploma in Information Technology Course Outline \(33112\)](#)

[Advanced Diploma in Information Technology Course Outline \(43113\)](#)

[Diploma in Telecommunication Engineering \(30116\)](#)

[Professional Certificate in Medical Data System + Graduate Certificate in Information Technology \(Medical data system\) \(4889008\)](#)

## Self Study CPD Online Courses

[Self study online CPD Courses \(12111/13111\)](#)

[Open Public Courses and Continuing Professional Development Courses](#)

[Certificate of Attendance in Diploma/ Professional Diploma in Engineering, Management and Information Technology Programs](#)  
(A66223) Form-Click [HERE](#)

## Double Degrees Program

[Double Degrees \(BE+BMgt/ BE+BAppSc\(IT\)/ BMgt+BAppSc\(IT\)\)](#)

Bachelor of Education/ Diploma in Education/ Diploma in Teaching /Professional Diploma in Education Courses

[Bachelor Degree Programs \(St Clements University Higher Education School &](#)

[STC Technological University of British West Indies\)](#)

[Master of Education \(Engineering Education/ School and Vocational Education\)](#)  
(80018)

[Professional Diploma in Technical Teaching \(Training, Assessment & Learning Management\)](#)

(10615/46415/56415/66415/76415)

[Diploma in Engineering Education for Government Technical Colleges & Technological University Teachers & Vocational Education Teachers in Myanmar](#)

(10615/46415/56415/66415/76415)

[Diploma in Engineering Education \(Level 1/2/3 Engineering Education Program\)](#)

[Preparation for Teaching Practice & TVET Teacher Training \(Introductory 2 weeks course\)](#)

[Diploma in Higher Education Teaching Course](#)

## Engineering Education & Accreditation Course

Certificate in Teaching Support+ Diploma in Teaching Practice+ Bachelor of Teaching+ Bachelor of Education (School & Vocational) (66213/66313)

### Diploma in Teaching Practice

PROFESSIONAL DIPLOMA IN SCHOOL & VOCATIONAL EDUCATION)

(BACHELOR OF EDUCATION (SCHOOL & VOCATIONAL EDUCATION)

### Teacher Training for Volunteer Organizations

**Bachelor of Humanities Studies/ Diploma in Humanities Studies / Advanced Diploma in Humanities Studies/  
Professional Diploma in Humanities Studies / Masters Diploma & Master of Humanities Studies Courses**  
**Bachelor Degree Programs (St Clements University Higher Education School &**

**STC Technological University of British West Indies)**

## IQY Technical College/ St Clements University Humanities

### Study Programs

(37001/47001/57001/67001)

Myanmar Vocational Training Collaboration +IQY+ STCTU+ St Clements University Myanmar College

Diploma in Work Studies (106689)/ Advanced Diploma in Work Studies (206689) / Bachelor of Work Studies/ Bachelor of Occupation Studies (406689)

Bachelor of Work Studies (Vocational) in Myanmar Language

Bachelor of Work Studies in Vocational Studies (456678A/556678A)

Work Studies Career

Dip EI+Dip M & E + Prof Cert Hotel Construction



[Professional Diploma in Work Studies-Engineering/ Professional Diploma in Engineering science/ Bachelor of Work Studies/ Bachelor of Science-Engineering/ \(Course 5066689\)Associate Degree in Work Studies-Engineering \(Course 332256\)](#)

Certificate in Legal Studies (Myanmar Law) 1133456

**Graduate Diploma/ Master Diploma/ Master of Engineering Courses**

**STC Technological University & IQY Technical College**

[Master of Engineering Science, Master of Engineering, Graduate Diploma in Engineering](#)

[76555 E/M/C](#)

[Graduate Diploma of Engineering Practice \(Electrical\) Course \(70114/71115\)](#)

[Graduate Diploma of Engineering Practice \(Electronics\) Course\(71114/72515\)](#)

[Graduate Diploma of Engineering Practice \(Mechanical\) Course \(70314/72315\)](#)

[Graduate Diploma of Engineering Practice \(Civil\) Course \(70214/72215\)](#)

**[Master of Science \(Engineering\) / Master of Engineering](#)**

[IQY Master Diploma In Engineering/ Applied Science/Management- Research Programs \(80214/81215\) \(80314/81315\) \(80114/81115\)](#)

[Special Master of Engineering Courses \(Engineering Disciplines other than Electrical/Civil/Mechanical\) \(83215\)](#)

[Master of Science \(Renewable Energy Engineering\) \(80914\)](#)

[Master of Engineering \(Renewable Energy\) \(80414\)](#)

[Master of Engineering \(Chemical\) \(83215A\)](#)

[Master of Engineering \(Metallurgy\) \(83215B\)](#)

[Master of Engineering \(Mineral\) \(83215C\)](#)

[Master of Engineering \(Architectural\) \(83215D\)](#)

[IQY Masters Degree \(M Mgt+ ME \(EE,CE,ME\)+M App Sc \(IT\)+MSc \(RE\)+ Associate Degree in RE+ BE \(Civil+ Mechanical\) Courses Learning Support Website](#)

## [IQY Technical College Masters Degree Information](#)

[Graduate Diploma of Civil Engineering + Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline \(70214/71215\)](#)

[Graduate Diploma of Mechanical Engineering + Bachelor of Applied Engineering \(Final Year Mechanical Design\) Course Outline \(70314/71415\)](#)

[Graduate Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline\(70714\)](#)

**Graduate Diploma/ Master Diploma/ Master of Applied Science (Information Technology) Courses**

[Master Degree Programs \( St Clements University and](#)

[STC Technological University of British West Indies\)](#)

[Master of Science \(Information Technology\)/Master of Information Technology](#)

(73114/73214/83215)

[\(Master Diploma in Applied Science-Information Technology\)](#)

[Master of Applied Science \(Computer Networking\) \(70883\)+](#)

[Master of Engineering \(Computer Networking\)\(70884\)](#)

**Graduate Diploma/ Master Diploma/ Master of Management Courses**

[Master Degree Programs \( St Clements University and](#)

[STC Technological University of British West Indies\)](#)

[Master of Management \(76114/76214/86215\)](#)

[Master Diploma in Management \(76114/76214/86215\)](#)

[Master of Accounting/ Master Diploma in Accounting \(77114\)](#)

Graduate Diploma/ Master Diploma/ Master of Engineering Courses

**SCPU School of Engineering (Switzerland),**

**IPEM Technological University &**

**St Clements University Myanmar College**

The students who complete the following programs will also be awarded Master of Engineering (Professional Engineering) or

Master of Engineering Honours by STC Technological University

[Master of Engineering +Graduate Diploma in Engineering \(Civil\) Course Outline \(80214/81215\)](#)

[Master of Engineering +Graduate Diploma in Engineering \(Mechanical\) Course Outline \(80314/81315\)](#)

[Master of Engineering +Graduate Diploma in Engineering \(Electrical\) Course Outline \(80114/81115\)](#)

[Master of Engineering \(Civil High Rise Building Construction\) \(801121\)](#)

[Graduate Diploma in Geographic Information Systems\(6886650\)](#)

[Master of Professional Engineering \(6688900\)](#)

[Master of Professional Engineering Practice \(6688901\)](#)

Diploma in Doctorate Studies/ Doctor of Philosophy Programs

[Doctor of Philosophy Degree Programs \( St Clements University and](#)

[STC Technological University of British West Indies\)](#)

[IQY Diploma in Doctorate Studies \(90110\)](#)

## Engineering Trades Practical Courses

[Practical Courses \(Certificate of Attendance\)](#) (10515)

## Vocational Education Certificate Courses (Non Engineering)

<http://www.highlightcomputer.com/mvtc.htm>

[General Vocational Courses](#)

(10615)

## IQY Technical College Rural Development Engineering Program

[Diploma in Intermediate Science](#) (10777)

-

<http://www.highlightcomputer.com/adrde.pdf>

Course MVTC 301/401/501/601)

[BE \(Rural Development Engineering\)](#)

[BE \(Agricultural Engineering\) 67433321](#)

## Myanmar Vocational Training Certificate Courses

<http://www.highlightcomputer.com/mvtc.htm>

[General Vocational Courses](#)

(10615)

## Professional Engineer Support Program

<http://www.highlightcomputer.com/pe.htm>

**Professional Engineers Support Course**

(73115/73215/73315/73715/73815)

**Engineering Fundamental Course**

(73115/73215/73315/73715/73815)

**Engineering Fundamental & PE Support**

(73115/73215/73315/73715/73815)

**Renewable Energy Programs**

<http://www.highlightcomputer.com/REPrograms.htm>

**Year 7 to 12 Study Support**

<http://www.highlightcomputer.com/y712.htm>

**Certificate II, III, IV in Workplace English + Engineering & Diploma to Associate Degree in Engineering Practice Course**

**Certificate II, III, IV in Workplace English + Engineering & Diploma to Associate Degree in Engineering Practice Course Outline**

(11114/21114/21214/50115/50215/50315/50715)

**International Engineering & Engineering Trades Support Program**

**Australian Bachelors Degree in Engineering**

(62115)

## [Australian Civil Engineering](#)

(41215)

## [Australian Mechanical Engineering](#)

(41315)

## [AUSTRALIAN ELECTRICIAN TRAINING](#) (41108/51413)

Physical Education-Fitness Program

### [Fitness Training](#)

Engineering Design Course

[www.iqytechnicalcollege.com/engineeringdesign1.htm](http://www.iqytechnicalcollege.com/engineeringdesign1.htm)

## **International Vocational Education Courses**

[www.iqytechnicalcollege.com/ivtc.htm](http://www.iqytechnicalcollege.com/ivtc.htm)

[IQY Technical College Unit Coding](#)

## **Language**

[www.iqytechnicalcollege.com/Language1.pdf](http://www.iqytechnicalcollege.com/Language1.pdf)

[IQY Technical College Course Handbook](#)

[IQYSIETIPEMSCPU Handbook](#)



# **IQY Technical College**

## **(IQY Technical and Vocational Training)**

[www.iqytechnicalcollege.com](http://www.iqytechnicalcollege.com)

[www.iqytechnicalcollege.blogspot.com.au](http://www.iqytechnicalcollege.blogspot.com.au)

**Registered in Australia -Australian Securities and Investments Commission (ASIC)**

**[Evidence of Registration with Australian Government](#)**

**[Registration Certificate](#)**

**Australian Business Number (ABN 96219389279)**

IQY Technical College is also an authorised education college of The Institution of Professional Engineers Myanmar New South Wales Australia Chapter registered with New South Wales State Government of Australia (INC1901087)

IQY Technical College of IQY St Clements Education Group and Highlight Computer Group (Myanmar) is an authorized training centre of Singapore Institute of Engineering Technologists for ASEAN Engineering Technologist and ASEAN Engineering Technician Registration.

**One of top universities in Myanmar rated by Universities in the World**

**[Universities in the World Rating Link \(IQY Server\)](#)**

**[IQY is one of Top university in Yangon \(Webpage zip file\) & PDF Page](#)**

**<https://www.universitiesintheworld.com/universities-in-myanmar/> (International Server)**

**[Myanmar Government Tax Payer Number 5270-IQY-St Clements Education Group-South Okkalapa, Yangon](#)**

**အပတ်စဉ်သင်ခန်းစာရယူရန်**

**[www.iqytechnicalcollege.com/weekly.htm](http://www.iqytechnicalcollege.com/weekly.htm)**

အပတ်စဉ်ကြေညာချက်များ

Weekly Announcements ဖတ်ရန်

<https://twitter.com/IQY46691033>

**St Clements University Myanmar College**

[www.stclements.edu/myanmar](http://www.stclements.edu/myanmar)

**IPEM Technological University (The Institution of Professional Engineers Myanmar Technological University)**

[www.ipemtechnologicaluniversity.education](http://www.ipemtechnologicaluniversity.education)

**IQY Technical University of Turkey**

[www.iqytechnicalcollege.com/Turkey.htm](http://www.iqytechnicalcollege.com/Turkey.htm)

[www.scpuengineeringedu.com](http://www.scpuengineeringedu.com)








**IQY Technical College (Fiji)**

[www.iqytechnicalcollege.com/FIJ.html](http://www.iqytechnicalcollege.com/FIJ.html)

မြန်မာဘာသာဖြင့်အဓိကအချက်များဖတ်လိုပါကအောက်ပါလင့်ကိုဝင်ကြည့်ပါ။

<http://www.iqytechnicalcollege.com/iqymyanmar1.htm>

IQY Technical College is an online learning system covering from Basic and Vocational Education to Postgraduate levels managed by the College Director and Program Leaders residing outside Myanmar. The students can learn the electronic lessons, videos in study groups supervised by tutors at any place in Myanmar and Overseas

						
COURSES	ENROLMENT	ENQUIRY	INFORMATION	EDUCATION SUPPORT	ENGINEERING SUPPORT	TECHNICAL SUPPORT
Offered Courses	All Enrolments for degrees & diplomas in Engineering/IT/Management	Contact and Campuses	Advertisement	Voluntary Schools Support	TU/GTC Support	Engineering Trades
Curriculums	THS GTI BE Bridging Enrolment	Academic and Administrative Staff	Course Objectives	Support for Volunteer Teachers	Professional Engineers Support	IQY Other Supports
Courses and Enrolment	TVET Teacher Training Enrolment	List of Graduates	International Recognition	Vocational Education Support	The Institution of Professional Engineers Myanmar	Renewable Energy



					<a href="#">Myanmar Society of Engineering Educators</a> <a href="#">The Institute of Renewable Energy Engineers</a> <a href="#">(IQY Students Association/Alumni/Professional Associations for Graduates)</a>	
<a href="#">IQY Qualifications Framework</a>	Vocational Education Courses Enrolment	Authorised Training Centre of Singapore Institute of Engineering Technologists (Initial Document) Continuing Accreditation will be available on demand	<a href="#">Students Centre</a> <a href="#">Job Competencies</a> <a href="#">Career and Job Information</a> <a href="#">Apprentice and Trainee Employment</a>	<a href="#">Engineering Education Support</a>	<a href="#">The Institution of Professional Engineers Myanmar</a> (Association for other engineers)	Open Public Courses and Continuing Professional Development Courses

**FREE ONLINE OCCUPATIONAL HEALTH AND SAFETY SITE FOR WORKERS**

[www.iqytechnicalcollege.com/safety.htm](http://www.iqytechnicalcollege.com/safety.htm)

#### ABOUT IQY TECHNICAL COLLEGE

IQY Technical College of IQY St Clements Education Group and Highlight Computer Group (Myanmar) is an Education and Training Unit of The Institution of Professional Engineers Myanmar (IPEM) organized by Myanmar Citizen and Ex-Myanmar Citizen Engineers which is an International Professional Organization, Member of International Federation of Engineering Education Societies (IFEES) and Associate Member (Elected 2018) of World Federation of Engineering Organizations (WFEO).

IQY Technical College of Highlight Computer Group is affiliated to St Clements University and S.T.C Technological University, International Institute of Science, Engineering & Management & The Institute of Professional Business & Technical Managers.

IQY Technical College of Highlight Computer Group is first institution in Myanmar operated by Myanmar Teachers to provide the international standard education to the students over the world by e-Learning.

#### MISSION & VISION

IQY Technical College teaches Singapore Recognized Engineering, ICT Engineering, Engineering Management and Engineering Education Diplomas and Professional Diplomas at Bachelors degree levels to enable the graduates to receive the Bachelors Degree in Engineering, Information Technology and Management from our two affiliated universities by credit transfer scheme.

IQY Technical College educates the students of Myanmar at the price affordable to average working class people of Myanmar by applying e-Learning with study support education groups at various physical locations.

[www.highlightcomputer.com](http://www.highlightcomputer.com)

**IQY Technical College Twitter Page**

<https://twitter.com/IQY46691033>

**IQY Technical College of IPEM Technological University Facebook Page**

<https://www.facebook.com/IQY-Technical-College-of-IPEM-Technological-University-111855393504230>

## **IQY Technical College Facebook Page**

<https://www.facebook.com/IQY-Technical-College-of-Highlight-Computer-Group-292744354172964/>

## **IQY Technical and Vocational Training**

<https://www.facebook.com/IQY-Technical-and-Vocational-Training-236770047229265/>

IQY Technical College is accredited by The Institution of Professional Engineers ,Myanmar (IPEM) which issue various engineer certificates in line with international engineering system.

[www.ipemyanmar.org](http://www.ipemyanmar.org)

[www.ipemyanmar.blogspot.com](http://www.ipemyanmar.blogspot.com)

[www.highlightcomputer.com/ipem.htm](http://www.highlightcomputer.com/ipem.htm)

## **IFEES Membership of IPEM**

**Membership on IFEES Website (Elected in 2018)**

**WFEO Membership of IPEM**

## **MEMBERS OF IQY-ST CLEMENTS EDUCATON GROUP**

### **(1) St Clements University Myanmar College**

[www.stclements.edu/myanmar](http://www.stclements.edu/myanmar)

[www.iqytechnicalcollege.com/scumyanmar.htm](http://www.iqytechnicalcollege.com/scumyanmar.htm)

**Certificate of Accreditation**

### **(2) STC Technological University-International Engineering**

[www.stctechnologicaluniversity.blogspot.com](http://www.stctechnologicaluniversity.blogspot.com)

**www.stclementstu.com**

**Certificate of Accreditation**

### **(3) IQY Technical College**

[www.iqytechnicalcollege.blogspot.com.au](http://www.iqytechnicalcollege.blogspot.com.au)

**Certificate of Accreditation**

**IQY E-Learning Live Lessons**  
[www.iqytechnicalcollege.com/weekly.htm](http://www.iqytechnicalcollege.com/weekly.htm)

Academic Collaboration

**Pyay Technical Institute (PTI)**  
[www.highlightcomputer.com/pgti.htm](http://www.highlightcomputer.com/pgti.htm)

## IQY Technical College Short Courses and Other Advertisements

[Electrical Protection +Cable Selection Training Short Course \(6 to 9 Jan 2019\)](#)

# Year 9 +10 Lessons

## WRITTEN NOTES

### Mathematics

[www.iqytechnicalcollege.com/Yr910Maths.zip](http://www.iqytechnicalcollege.com/Yr910Maths.zip)

### Physics

[www.iqytechnicalcollege.com/Y910Physics1.zip](http://www.iqytechnicalcollege.com/Y910Physics1.zip)

[www.iqytechnicalcollege.com/Y910Physics2.zip](http://www.iqytechnicalcollege.com/Y910Physics2.zip)

[www.iqytechnicalcollege.com/Y910Physics3.zip](http://www.iqytechnicalcollege.com/Y910Physics3.zip)

[www.iqytechnicalcollege.com/Y910Physics4.zip](http://www.iqytechnicalcollege.com/Y910Physics4.zip)

## Chemistry & Science

[www.iqytechnicalcollege.com/Y910Science.zip](http://www.iqytechnicalcollege.com/Y910Science.zip)

## Information Processing

[www.iqytechnicalcollege.com/Y910InformationProcessing.zip](http://www.iqytechnicalcollege.com/Y910InformationProcessing.zip)

## VIDEOS

[Year 9+10 Information Processing](#)

[Year 9+10 Science & Chemistry](#)

[Year 9+10 Mathematics](#)

[Year 9+10 Physics](#)

## Year 9+10 Information Processing

- Yr 9+10 Information Processing 1- Information Technology

Link for power-  
points to view

<http://www.filefactory.com/file/msq880fzekp/Yr%209%2B10%20Information%20Processing%201%20PPT.zip>

with computer	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/ubzlozv2d6n/Yr%209%2B10%20Information%20Processing%201%20DVD.zip">http://www.filefactory.com/file/ubzlozv2d6n/Yr%209%2B10%20Information%20Processing%201%20DVD.zip</a>

## **Video**

<https://youtu.be/Qe7BnqojcJY>

Yr 9+10 Information Processing 2A- Data Collection

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18g1u9quji5/Yr%209%2B10%20Information%20Processing%202A%20PPT.zip">http://www.filefactory.com/file/18g1u9quji5/Yr%209%2B10%20Information%20Processing%202A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3a97icdip7n1/Yr%209%2B10%20Information%20Processing%202A%20DVD.zip">http://www.filefactory.com/file/3a97icdip7n1/Yr%209%2B10%20Information%20Processing%202A%20DVD.zip</a>

## **Video**

<https://youtu.be/iPrZflrf3Ms>

Yr 9+10 Information Processing 2B- Data Processing Equipment

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5584ibgtmtjz/Yr%209%2B10%20Information%20Processing%202B%20PPT.zip">http://www.filefactory.com/file/5584ibgtmtjz/Yr%209%2B10%20Information%20Processing%202B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7aaxthxnjl9/Yr%209%2B10%20Information%20Processing%202B%20DVD.zip">http://www.filefactory.com/file/7aaxthxnjl9/Yr%209%2B10%20Information%20Processing%202B%20DVD.zip</a>

## **Video**

<https://youtu.be/8INosuw7HI8>

Yr 9+10 Information Processing 2C- Data Communication

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/iyilvpx0s5d/Yr%209%2B10%20Information%20Processing%202C%20PPT.zip">http://www.filefactory.com/file/iyilvpx0s5d/Yr%209%2B10%20Information%20Processing%202C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5romb91jqp2z/Yr%209%2B10%20Information%20Processing%202C%20DVD.zip">http://www.filefactory.com/file/5romb91jqp2z/Yr%209%2B10%20Information%20Processing%202C%20DVD.zip</a>

## **Video**

<https://youtu.be/230-h0g4xKg>



## Yr 9+10 Information Processing 3A-Problem Solving & System Development Design Planning

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4atl9n2xg2yn/Yr%209%2B10%20Information%20Processing%203A%20PPT.zip">http://www.filefactory.com/file/4atl9n2xg2yn/Yr%209%2B10%20Information%20Processing%203A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/huede6hquil/Yr%209%2B10%20Information%20Processing%203A%20DVD.zip">http://www.filefactory.com/file/huede6hquil/Yr%209%2B10%20Information%20Processing%203A%20DVD.zip</a>

### **Video**

<https://youtu.be/nLLbN1O1IQg>

## Yr 9+10 Information Processing 3B-Designing Solution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1hsmognepv4v/Yr%209%2B10%20Information%20Processing%203B%20PPT.zip">http://www.filefactory.com/file/1hsmognepv4v/Yr%209%2B10%20Information%20Processing%203B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6ymeam6xpaq3/Yr%209%2B10%20Information%20Processing%203B%20DVD.zip">http://www.filefactory.com/file/6ymeam6xpaq3/Yr%209%2B10%20Information%20Processing%203B%20DVD.zip</a>

## **Video**

<https://youtu.be/XbRvmuvQbrU>

Yr 9+10 Information Processing 4- Computer Technology Project

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/14gp4nk83fb/Yr%209%2B10%20Information%20Processing%204%20PPT.zip">http://www.filefactory.com/file/14gp4nk83fb/Yr%209%2B10%20Information%20Processing%204%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2w7elkkrykib/Yr%209%2B10%20Information%20Processing%204%20DVD.zip">http://www.filefactory.com/file/2w7elkkrykib/Yr%209%2B10%20Information%20Processing%204%20DVD.zip</a>

**The students need to attend the following computer practical courses for Chapter 5 to 11**

- Use of computer
- Word Processing
- Spread Sheet
- Database
- Powerpoint
- E mail
- Internet

## **Year 9+10 Science & Chemistry**

Yr 9+10 Science 1A- Wave Model

Link for power-points to view	<a href="http://www.filefactory.com/file/b2lyo12szqh/Yr%209%2B10%20Science%201A%20PPT.zip">http://www.filefactory.com/file/b2lyo12szqh/Yr%209%2B10%20Science%201A%20PPT.zip</a>
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with computer	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/45ywe3oh3y8n/Yr%209%2B10%20Science%201A%20DVD.zip">http://www.filefactory.com/file/45ywe3oh3y8n/Yr%209%2B10%20Science%201A%20DVD.zip</a>

## **Video**

<https://youtu.be/fL3vZy4yX0g>

Yr 9+10 Science 1B-Force, Mass, Acceleration, Newton Laws of Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/wkf6lkcjx9j/Yr%209%2B10%20Science%201B%20PPT.zip">http://www.filefactory.com/file/wkf6lkcjx9j/Yr%209%2B10%20Science%201B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5qx013eg5x6t/Yr%209%2B10%20Science%201B%20DVD.zip">http://www.filefactory.com/file/5qx013eg5x6t/Yr%209%2B10%20Science%201B%20DVD.zip</a>

## **Video**

<https://youtu.be/lyDwwq9ZLUI>

Yr 9+10 Science 1C-Force Problems + Electrical Energy

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2jviowzb5oy1/Yr%209%2B10%20Science%201C%20PPT.zip">http://www.filefactory.com/file/2jviowzb5oy1/Yr%209%2B10%20Science%201C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5wduhvovmko7/Yr%209%2B10%20Science%201C%20DVD.zip">http://www.filefactory.com/file/5wduhvovmko7/Yr%209%2B10%20Science%201C%20DVD.zip</a>

## **Video**

<https://youtu.be/cWCxuqkvdEM>

## Yr 9+10 Science 1D-Electrical Circuit + Light Energy

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6zg5xq7jmbul/Yr%209%2B10%20Science%201D%20PPT.zip">http://www.filefactory.com/file/6zg5xq7jmbul/Yr%209%2B10%20Science%201D%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7ajmjvhe9h47/Yr%209%2B10%20Science%201D%20DVD.zip">http://www.filefactory.com/file/7ajmjvhe9h47/Yr%209%2B10%20Science%201D%20DVD.zip</a>

### **Video**

<https://youtu.be/g5pHxjK7KgA>

<https://youtu.be/qxbRvMG9dYU>

## Yr 9+10 Science 1E-Nuclear Power + Gravitational Force

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5xtm93v8z3br/n/Yr_9+10_Science_1E_PPT.zip">http://www.filefactory.com/file/5xtm93v8z3br/n/Yr_9+10_Science_1E_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4yg2z6v238mn/n/Yr_9+10_Science_1E_DVD.zip">http://www.filefactory.com/file/4yg2z6v238mn/n/Yr_9+10_Science_1E_DVD.zip</a>

### **Video**

<https://youtu.be/-ULpl907nCc>

## Yr 9+10 Science 2A-Atomic Theory

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3yyer12mqs5p/Yr%209%2B10%20Science%202A%20PPT.zip">http://www.filefactory.com/file/3yyer12mqs5p/Yr%209%2B10%20Science%202A%20PPT.zip</a>
Link for JPEG+MP3 to view	<a href="http://www.filefactory.com/file/4z8u4weo0z37/Yr%209%2B10%20Science%202A%20DVD.zip">http://www.filefactory.com/file/4z8u4weo0z37/Yr%209%2B10%20Science%202A%20DVD.zip</a>

with portable DVD Player	
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### **Video**

<https://youtu.be/Ci9nmf1XxOM>

Yr 9+10 Science 2B-Periodic Table, Compounds & Reaction

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5no1ocrfedgr/Yr%209%2B10%20Science%202B%20PPT.zip">http://www.filefactory.com/file/5no1ocrfedgr/Yr%209%2B10%20Science%202B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/co7ddfd09qp/Yr%209%2B10%20Science%202B%20DVD.zip">http://www.filefactory.com/file/co7ddfd09qp/Yr%209%2B10%20Science%202B%20DVD.zip</a>

### **Video**

[https://youtu.be/K\\_W7sNikmg8](https://youtu.be/K_W7sNikmg8)

Yr 9+10 Science 2C-Compounds & Chemical Reaction Formula

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6focjaootv6b/Yr%209%2B10%20Science%202C%20PPT.zip">http://www.filefactory.com/file/6focjaootv6b/Yr%209%2B10%20Science%202C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/75tupne66wzj/Yr%209%2B10%20Science%202C%20DVD.zip">http://www.filefactory.com/file/75tupne66wzj/Yr%209%2B10%20Science%202C%20DVD.zip</a>

### **Video**

<https://youtu.be/KJD56En3XpM>

## Yr 9+10 Science 2D-Chemical Reactions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3bq8zt4nied/Yr%209%2B10%20Science%202D%20PPT.zip">http://www.filefactory.com/file/3bq8zt4nied/Yr%209%2B10%20Science%202D%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3yv2159wykxm/Yr%209%2B10%20Science%202D%20DVD.zip">http://www.filefactory.com/file/3yv2159wykxm/Yr%209%2B10%20Science%202D%20DVD.zip</a>

### **Video**

<https://youtu.be/xet9us3WgAU>

## Yr 9+10 Science3A-Structures & Functions of Living Things

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/fkmrjk6fw0z/Yr%209%2B10%20Science%203A%20PPT.zip">http://www.filefactory.com/file/fkmrjk6fw0z/Yr%209%2B10%20Science%203A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6jvwom587crx/Yr%209%2B10%20Science%203A%20DVD.zip">http://www.filefactory.com/file/6jvwom587crx/Yr%209%2B10%20Science%203A%20DVD.zip</a>

### **Video**

<https://youtu.be/7O24rzyf60c>

## Yr 9+10 Science3B-DNA Structures Replication & Theory of Evolution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4aky6sihvb61/Yr%209%2B10%20Science%203B%20PPT.zip">http://www.filefactory.com/file/4aky6sihvb61/Yr%209%2B10%20Science%203B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/278r3jhb2tbz/Yr%209%2B10%20Science%203B%20DVD.zip">http://www.filefactory.com/file/278r3jhb2tbz/Yr%209%2B10%20Science%203B%20DVD.zip</a>

## **Video**

<https://youtu.be/M5mvqUfGEkQ>

Yr 9+10 Science3C-Bio-chemistry & DNA Analysis

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4nshq0742ajb/Yr%209%2B10%20Science%203C%20PPT.zip">http://www.filefactory.com/file/4nshq0742ajb/Yr%209%2B10%20Science%203C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4emxvol59y8v/Yr%209%2B10%20Science%203C%20DVD.zip">http://www.filefactory.com/file/4emxvol59y8v/Yr%209%2B10%20Science%203C%20DVD.zip</a>

## **Video**

<https://youtu.be/8rXRS8pofWE>

Yr 9+10 Science3D-Endocrine System + Response of Body System to Diseases

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/s2zwle0dv37/Yr%209%2B10%20Science%203D%20PPT.zip">http://www.filefactory.com/file/s2zwle0dv37/Yr%209%2B10%20Science%203D%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5cvqxdermdel/Yr%209%2B10%20Science%203D%20DVD.zip">http://www.filefactory.com/file/5cvqxdermdel/Yr%209%2B10%20Science%203D%20DVD.zip</a>

## **Video**

[https://youtu.be/75SxE\\_ftGLY](https://youtu.be/75SxE_ftGLY)

Yr 9+10 Science3E-Human Reproduction

Link for power-points to view	<a href="http://www.filefactory.com/file/5pu65ljnxkh7/Yr%209%2B10%20Science%203E%20PPT.zip">http://www.filefactory.com/file/5pu65ljnxkh7/Yr%209%2B10%20Science%203E%20PPT.zip</a>
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with computer	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/hkzpnagp9mt/Yr%209%2B10%20Science%203E%20DVD.zip">http://www.filefactory.com/file/hkzpnagp9mt/Yr%209%2B10%20Science%203E%20DVD.zip</a>

## **Video**

[https://youtu.be/BN48jqTe2\\_0](https://youtu.be/BN48jqTe2_0)

## **Year 9+10 Mathematics**

- Yr 9+10 Maths 1A-Consumer Arithmetic, Rate, Variation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/47d3f8gqx92z/Yr%209%2B10Mathematics%201A%20PPT.zip">http://www.filefactory.com/file/47d3f8gqx92z/Yr%209%2B10Mathematics%201A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2g3oarp9c2s3/Yr%209%2B10%20Maths%201A%20DVD.zip">http://www.filefactory.com/file/2g3oarp9c2s3/Yr%209%2B10%20Maths%201A%20DVD.zip</a>

## **Video**

<https://youtu.be/oVCpsmBLt8Q>

- Yr 9+10 Maths 1B-Interest

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/654bb7rho617/Yr%209%2B10%20Mathematics%201B%20PPT.zip">http://www.filefactory.com/file/654bb7rho617/Yr%209%2B10%20Mathematics%201B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6tm4avc9e6dp/Yr%209%2B10%20Maths%201B%20%20DVD.zip">http://www.filefactory.com/file/6tm4avc9e6dp/Yr%209%2B10%20Maths%201B%20%20DVD.zip</a>

## **Video**



<https://youtu.be/ebZ8lxKl2Sw>

Yr 9+10 Maths 1C-Ratio, Direct, Variation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6xz05fr6lyvx/Yr%209%2B10%20Mathematics%201C%20PPT.zip">http://www.filefactory.com/file/6xz05fr6lyvx/Yr%209%2B10%20Mathematics%201C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5q02a3ilemvt/Yr%209%2B10%20Maths%201C%20DVD.zip">http://www.filefactory.com/file/5q02a3ilemvt/Yr%209%2B10%20Maths%201C%20DVD.zip</a>

### **Video**

[https://youtu.be/aVc7lGd\\_tVY](https://youtu.be/aVc7lGd_tVY)

Yr 9+10 Maths 2A-General Arithmetic

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/24n60e8n6jxn/Yr%209%2B10%20Mathematics%202A%20PPT.zip">http://www.filefactory.com/file/24n60e8n6jxn/Yr%209%2B10%20Mathematics%202A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33eoorcaz941/Yr%209%2B10%20Maths%202A%20DVD.zip">http://www.filefactory.com/file/33eoorcaz941/Yr%209%2B10%20Maths%202A%20DVD.zip</a>

### **Video**

<https://youtu.be/l-7P50ksiCU>

Yr 9+10 Maths 2B-Mathematical Equation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6loq853kkd37/Yr%209%2B10%20Mathematics%202B%20PPT.zip">http://www.filefactory.com/file/6loq853kkd37/Yr%209%2B10%20Mathematics%202B%20PPT.zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6muivqdidksb/Yr%209%2B10%20Maths%202B%20DVD.zip">http://www.filefactory.com/file/6muivqdidksb/Yr%209%2B10%20Maths%202B%20DVD.zip</a>
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## **Video**

<https://youtu.be/MLfU9ab2yEw>

Yr 9+10 Maths 3-Real Number

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2m0zxnuez1lf/Yr%209%2B10%20Mathematics%203%20PPT.zip">http://www.filefactory.com/file/2m0zxnuez1lf/Yr%209%2B10%20Mathematics%203%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7g6xrid6smpf/Yr%209%2B10%20Maths%203%20DVD.zip">http://www.filefactory.com/file/7g6xrid6smpf/Yr%209%2B10%20Maths%203%20DVD.zip</a>

## **Video**

<https://youtu.be/mgOMLBIPbZA>

Yr 9+10 Maths 4A-Equations and Inequations

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/48a348oa58gb/Yr%209%2B10%20Mathematics%204A%20PPT.zip">http://www.filefactory.com/file/48a348oa58gb/Yr%209%2B10%20Mathematics%204A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/74zmowzkiknv/Yr%209%2B10%20Maths%204A%20DVD.zip">http://www.filefactory.com/file/74zmowzkiknv/Yr%209%2B10%20Maths%204A%20DVD.zip</a>

## **Video**

<https://youtu.be/pU0sMTfJQpM>

## Yr 9+10 Maths 4B-Equation Problems+ Transportation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1f2qai1m533p/Yr%209%2B10%20Mathematics%204B%20PPT.zip">http://www.filefactory.com/file/1f2qai1m533p/Yr%209%2B10%20Mathematics%204B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/69bf9i8fjgl/Yr%209%2B10%20Maths%204B%20DVD.zip">http://www.filefactory.com/file/69bf9i8fjgl/Yr%209%2B10%20Maths%204B%20DVD.zip</a>

### **Video**

<https://youtu.be/Z4vVUtZ8VWs>

## Yr 9+10 Maths 5-Interpreting Graphics

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/558lidvexti1/Yr%209%2B10%20Mathematics%205%20PPT.zip">http://www.filefactory.com/file/558lidvexti1/Yr%209%2B10%20Mathematics%205%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3z9lic9sa8wv/Yr%209%2B10%20Maths%205%20DVD.zip">http://www.filefactory.com/file/3z9lic9sa8wv/Yr%209%2B10%20Maths%205%20DVD.zip</a>

### **Video**

[https://youtu.be/H\\_Ts-M0b2ho](https://youtu.be/H_Ts-M0b2ho)

## Yr 9+10 Maths 6-Co-ordinate Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/930qcsj2wh3/Yr%209%2B10%20Mathematics%206%20PPT.zip">http://www.filefactory.com/file/930qcsj2wh3/Yr%209%2B10%20Mathematics%206%20PPT.zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7n2h4ffrlbj/Yr%209%2B10%20Maths%206%20DVD.zip">http://www.filefactory.com/file/7n2h4ffrlbj/Yr%209%2B10%20Maths%206%20DVD.zip</a>
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### **Video**

<https://youtu.be/PmFX-myucX8>

Yr 9+10 Maths 7A-Chance & Data

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/b8x5t1xqi89/Yr%209%2B10%20Mathematics%207A%20PPT.zip">http://www.filefactory.com/file/b8x5t1xqi89/Yr%209%2B10%20Mathematics%207A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7e3wwuchkk81/Yr%209%2B10%20Maths%207A%20DVD.zip">http://www.filefactory.com/file/7e3wwuchkk81/Yr%209%2B10%20Maths%207A%20DVD.zip</a>

### **Video**

<https://youtu.be/yt5U0UJZJqo>

Yr 9+10 Maths 7B-Range+Medium

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1irhd8ppym7t/Yr%209%2B10%20Mathematics%207B%20PPT.zip">http://www.filefactory.com/file/1irhd8ppym7t/Yr%209%2B10%20Mathematics%207B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/47tesbljo37j/Yr%209%2B10%20Maths%207B%20DVD.zip">http://www.filefactory.com/file/47tesbljo37j/Yr%209%2B10%20Maths%207B%20DVD.zip</a>

### **Video**

<https://youtu.be/w-3-2A0x6ac>

## Yr 9+10 Maths 7C-Standard Deviation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/60shlu8786dh/Yr%209%2B10%20Mathematics%207C%20PPT.zip">http://www.filefactory.com/file/60shlu8786dh/Yr%209%2B10%20Mathematics%207C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3mrfekuc6c91/Yr%209%2B10%20Maths%207C%20DVD.zip">http://www.filefactory.com/file/3mrfekuc6c91/Yr%209%2B10%20Maths%207C%20DVD.zip</a>

### **Video**

<https://youtu.be/uS1nrENKAp0>

## Yr 9+10 Maths 8-Measurement, Time, Perimeter, Area, Surface Area, Volume

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4u4xzc478clv/Yr%209%2B10%20Mathematics%208%20PPT.zip">http://www.filefactory.com/file/4u4xzc478clv/Yr%209%2B10%20Mathematics%208%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5hz1kvij59l/Yr%209%2B10%20Maths%208%20DVD.zip">http://www.filefactory.com/file/5hz1kvij59l/Yr%209%2B10%20Maths%208%20DVD.zip</a>

### **Video**

<https://youtu.be/fSyfe3tFsZw>

## Yr 9+10 Maths 9-Similarity

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7k2cgp0627m7/Yr%209%2B10%20Mathematics%209%20PPT.zip">http://www.filefactory.com/file/7k2cgp0627m7/Yr%209%2B10%20Mathematics%209%20PPT.zip</a>
Link for JPEG+MP3 to view	<a href="http://www.filefactory.com/file/1nyzddco4j2l/Yr%209%2B10%20Maths%209%20DVD.zip">http://www.filefactory.com/file/1nyzddco4j2l/Yr%209%2B10%20Maths%209%20DVD.zip</a>

with portable DVD Player

## **Video**

<https://youtu.be/Ss9Q9rXrLS0>

Yr 9+10 Maths 10A-Trigonometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7gmsa72whtpv/Yr%209%2B10%20Mathematics%2010A%20PPT.zip">http://www.filefactory.com/file/7gmsa72whtpv/Yr%209%2B10%20Mathematics%2010A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6ajqnz124k7d/Yr%209%2B10%20Maths%2010A%20DVD.zip">http://www.filefactory.com/file/6ajqnz124k7d/Yr%209%2B10%20Maths%2010A%20DVD.zip</a>

## **Video**

<https://youtu.be/XklDpsdSBpk>

Yr 9+10 Maths 10B-Bearing

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5gfj97vey2wh/Yr%209%2B10%20Mathematics%2010B%20PPT.zip">http://www.filefactory.com/file/5gfj97vey2wh/Yr%209%2B10%20Mathematics%2010B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6jluz0tgh5wb/Yr%209%2B10%20Maths%2010B%20DVD.zip">http://www.filefactory.com/file/6jluz0tgh5wb/Yr%209%2B10%20Maths%2010B%20DVD.zip</a>

## **Video**

<https://youtu.be/sVTclOAWipk>

## Yr 9+10 Maths 10C-Triangles without right angle

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/615jbcrhz6qb/Yr%209%2B10%20Mathematics%2010C%20PPT.zip">http://www.filefactory.com/file/615jbcrhz6qb/Yr%209%2B10%20Mathematics%2010C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2udrnu3e5bzx/Yr%209%2B10%20Maths%2010C%20DVD.zip">http://www.filefactory.com/file/2udrnu3e5bzx/Yr%209%2B10%20Maths%2010C%20DVD.zip</a>

### **Video**

<https://youtu.be/yPazUb4JBeA>

## Yr 9+10 Maths 11-Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5e7hl7mdeu5l/Yr%209%2B10%20Mathematics%2011%20PPT.zip">http://www.filefactory.com/file/5e7hl7mdeu5l/Yr%209%2B10%20Mathematics%2011%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rn4jhi996j9/Yr%209%2B10%20Maths%2011%20DVD.zip">http://www.filefactory.com/file/1rn4jhi996j9/Yr%209%2B10%20Maths%2011%20DVD.zip</a>

### **Video**

<https://youtu.be/pLVreAyLuX0>

## Yr 9+10 Maths 12-Further Geometry-The Circle

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2xa4dgmnmrsv/Yr%209%2B10%20Mathematics%2012%20PPT.zip">http://www.filefactory.com/file/2xa4dgmnmrsv/Yr%209%2B10%20Mathematics%2012%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/19k2qvykv0mp/Yr%209%2B10%20Maths%2012%20DVD.zip">http://www.filefactory.com/file/19k2qvykv0mp/Yr%209%2B10%20Maths%2012%20DVD.zip</a>

## **Video**

<https://youtu.be/7ZfzrTd6px4>

Yr 9+10 Maths 13-Logarithms, Functions and Graphs

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6jmdhjctveib/Yr%209%2B10%20Mathematics%2013%20PPT.zip">http://www.filefactory.com/file/6jmdhjctveib/Yr%209%2B10%20Mathematics%2013%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3q3k79hckl0n/Yr%209%2B10%20Maths%2013%20DVD.zip">http://www.filefactory.com/file/3q3k79hckl0n/Yr%209%2B10%20Maths%2013%20DVD.zip</a>

## **Video**

[https://youtu.be/fDBsITA7k\\_o](https://youtu.be/fDBsITA7k_o)

Yr 9+10 Maths 14-Polynomials & Curve Sketching

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3wii8xdez5t3/Yr%209%2B10%20Mathematics%2014%20PPT.zip">http://www.filefactory.com/file/3wii8xdez5t3/Yr%209%2B10%20Mathematics%2014%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1uid2zsk3v9v/Yr%209%2B10%20Maths%2014%20DVD.zip">http://www.filefactory.com/file/1uid2zsk3v9v/Yr%209%2B10%20Maths%2014%20DVD.zip</a>

## **Video**

<https://youtu.be/couFxWTPdAs>

## **Year 9+10 Physics**



**More lessons are being prepared & will be uploaded when finished.**

Yr 9+10 Physics-1.Process of Science-Data

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7fr3jja2z8n3/n/Yr_9+10_Physics_1_PPT.zip">http://www.filefactory.com/file/7fr3jja2z8n3/n/Yr_9+10_Physics_1_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/yiojmvopk3l/n/Yr_9+10_Physics_1_DVD.zip">http://www.filefactory.com/file/yiojmvopk3l/n/Yr_9+10_Physics_1_DVD.zip</a>

### **Video**

<https://youtu.be/DiNtDcqbf0>

Yr 9+10 Physics-2.Force in one dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/gq2vov789bx/n/Yr_9+10_Physics_2_PPT.zip">http://www.filefactory.com/file/gq2vov789bx/n/Yr_9+10_Physics_2_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2reu8dxuldeb/n/Yr_9+10_Physics_2_DVD.zip">http://www.filefactory.com/file/2reu8dxuldeb/n/Yr_9+10_Physics_2_DVD.zip</a>

### **Video**

[https://youtu.be/FkgL5g\\_ArFs](https://youtu.be/FkgL5g_ArFs)

Yr 9+10 Physics-3.Momentum in one dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4nkkd5ybbgbx/n/Yr_9+10_Physics_3_PPT.zip">http://www.filefactory.com/file/4nkkd5ybbgbx/n/Yr_9+10_Physics_3_PPT.zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/36zwvোধ0wnf/n/Yr_9+10_Physics_3_DVD.zip">http://www.filefactory.com/file/36zwvোধ0wnf/n/Yr_9+10_Physics_3_DVD.zip</a>
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### **Video**

[https://youtu.be/dC\\_sYmYGIH4](https://youtu.be/dC_sYmYGIH4)

Yr 9+10 Physics-4.Work, Energy, Power

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6qe3mqsknvn9/n/Yr_9+10_Physics_4_PPT.zip">http://www.filefactory.com/file/6qe3mqsknvn9/n/Yr_9+10_Physics_4_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5dl69ldxw7ub/n/Yr_9+10_Physics_4_DVD.zip">http://www.filefactory.com/file/5dl69ldxw7ub/n/Yr_9+10_Physics_4_DVD.zip</a>

### **Video**

<https://youtu.be/Ftt-MVajzHU>

Yr 9+10 Physics-5.Electrostatics

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5m5zy8krlivf/n/Yr_9+10_Physics_5_PPT.zip">http://www.filefactory.com/file/5m5zy8krlivf/n/Yr_9+10_Physics_5_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/41g8ko0jl05x/n/Yr_9+10_Physics_5_DVD.zip">http://www.filefactory.com/file/41g8ko0jl05x/n/Yr_9+10_Physics_5_DVD.zip</a>

### **Video**

[https://youtu.be/36NEJa5GI\\_g](https://youtu.be/36NEJa5GI_g)

## Yr 9+10 Physics-6.Waves

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/60n34kim8dop/n/Yr_9+10_Physics_6_PPT.zip">http://www.filefactory.com/file/60n34kim8dop/n/Yr_9+10_Physics_6_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/9ibdwtc6q2n/n/Yr_9+10_Physics_6_DVD.zip">http://www.filefactory.com/file/9ibdwtc6q2n/n/Yr_9+10_Physics_6_DVD.zip</a>

### **Video**

[https://youtu.be/gyTT0\\_jrtg](https://youtu.be/gyTT0_jrtg)

## Yr 9+10 Physics-7A. Nuclear Physics

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1t5a94i340hv/n/Yr_9+10_Physics_7A_PPT.zip">http://www.filefactory.com/file/1t5a94i340hv/n/Yr_9+10_Physics_7A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1ukvjdt53s11/n/Yr_9+10_Physics_7A_DVD.zip">http://www.filefactory.com/file/1ukvjdt53s11/n/Yr_9+10_Physics_7A_DVD.zip</a>

### **Video**

<https://youtu.be/8W3-PW8YMzo>

## Yr 9+10 Physics-7B.Nuclear Structure

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/54zslhmb7tur/n/Yr_9+10_Physics_7B_PPT.zip">http://www.filefactory.com/file/54zslhmb7tur/n/Yr_9+10_Physics_7B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/76f28zmse6rb/n/Yr_9+10_Physics_7B_DVD.zip">http://www.filefactory.com/file/76f28zmse6rb/n/Yr_9+10_Physics_7B_DVD.zip</a>

## **Video**

<https://youtu.be/RVJszw4RUxA>

Yr 9+10 Physics-7C.Binding Energy

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/i7w13pw1f3t/n/Yr_9+10_Physics_7C_PPT.zip">http://www.filefactory.com/file/i7w13pw1f3t/n/Yr_9+10_Physics_7C_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2fypivvknfh5/n/Yr_9+10_Physics_7C_DVD.zip">http://www.filefactory.com/file/2fypivvknfh5/n/Yr_9+10_Physics_7C_DVD.zip</a>

## **Video**

<https://youtu.be/2t9mK92K1t0>

Yr 9+10 Physics-7D.Nuclear Power Plant-Fusion Power

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55vkarvmswuz/n/Yr_9+10_Physics_7D_PPT.zip">http://www.filefactory.com/file/55vkarvmswuz/n/Yr_9+10_Physics_7D_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11m3muqt1go1/n/Yr_9+10_Physics_7D_DVD.zip">http://www.filefactory.com/file/11m3muqt1go1/n/Yr_9+10_Physics_7D_DVD.zip</a>

## **Video**

<https://youtu.be/7X6N8Fome2c>

Yr 9+10 Physics-8-Motion-Vector

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2q7w5ar7zi5r/n/Yr_9+10_Physics_8_PPT.zip">http://www.filefactory.com/file/2q7w5ar7zi5r/n/Yr_9+10_Physics_8_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2v9qts4any73/n/Yr_9+10_Physics_8_DVD.zip">http://www.filefactory.com/file/2v9qts4any73/n/Yr_9+10_Physics_8_DVD.zip</a>

## **Video**

<https://youtu.be/-mjava5ICEk>

Yr 9+10 Physics-9.Projectile Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6hww5e9b15b3/n/Yr_9+10_Physics_9_PPT.zip">http://www.filefactory.com/file/6hww5e9b15b3/n/Yr_9+10_Physics_9_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3rzle1ye0ppr/n/Yr_9+10_Physics_9_DVD.zip">http://www.filefactory.com/file/3rzle1ye0ppr/n/Yr_9+10_Physics_9_DVD.zip</a>

## **Video**

<https://youtu.be/iBgycKe7kpU>

Yr 9+10 Physics-10.Circular Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/pki8t6ykg6j/n/Yr_9+10_Physics_10_PPT.zip">http://www.filefactory.com/file/pki8t6ykg6j/n/Yr_9+10_Physics_10_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5cdciv4nmvih/n/Yr_9+10_Physics_10_DVD.zip">http://www.filefactory.com/file/5cdciv4nmvih/n/Yr_9+10_Physics_10_DVD.zip</a>

## **Video**

<https://youtu.be/Q6ACYuDB-U0>

Yr 9+10 Physics-11.Simple Harmonic Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1yecno6fhvs1/n/Yr_9+10_Physics_11_PPT.zip">http://www.filefactory.com/file/1yecno6fhvs1/n/Yr_9+10_Physics_11_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2su5iz9uunvp/n/Yr_9+10_Physics_11_DVD.zip">http://www.filefactory.com/file/2su5iz9uunvp/n/Yr_9+10_Physics_11_DVD.zip</a>

### **Video**

<https://youtu.be/yEUg4OFSYRA>

Yr 9+10 Physics-12.Forces in two dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/32z5pjqhbirn/n/Yr_9+10_Physics_12_PPT.zip">http://www.filefactory.com/file/32z5pjqhbirn/n/Yr_9+10_Physics_12_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/14w87tdgao8j/n/Yr_9+10_Physics_12_DVD.zip">http://www.filefactory.com/file/14w87tdgao8j/n/Yr_9+10_Physics_12_DVD.zip</a>

### **Video**

<https://youtu.be/lbadKeQECdc>

Yr 9+10 Physics-13.Momentum in two dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4aiwwwbjhyc5/n/Yr_9+10_Physics_13_PPT.zip">http://www.filefactory.com/file/4aiwwwbjhyc5/n/Yr_9+10_Physics_13_PPT.zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6j6f1nmi3jc7/n/Yr_9+10_Physics_13_DVD.zip">http://www.filefactory.com/file/6j6f1nmi3jc7/n/Yr_9+10_Physics_13_DVD.zip</a>
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## **Video**

<https://youtu.be/egpwYOAylT8>

Yr 9+10 Physics-14.Electric current

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/qc498o00gnt/n/Yr_9+10_Physics_14_PPT.zip">http://www.filefactory.com/file/qc498o00gnt/n/Yr_9+10_Physics_14_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6fu0kzce1dk5/n/Yr_9+10_Physics_14_DVD.zip">http://www.filefactory.com/file/6fu0kzce1dk5/n/Yr_9+10_Physics_14_DVD.zip</a>

## **Video**

<https://youtu.be/juUyXfHZqDY>

Yr 9+10 Physics-15A.Electro-magnetism

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/36c43izs40ux/n/Yr_9+10_Physics_15_A_PPT.zip">http://www.filefactory.com/file/36c43izs40ux/n/Yr_9+10_Physics_15_A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4ptjwag2c9oj/n/Yr_9+10_Physics_15_A_DVD.zip">http://www.filefactory.com/file/4ptjwag2c9oj/n/Yr_9+10_Physics_15_A_DVD.zip</a>

## **Video**

<https://youtu.be/94LXr3ZZYcg>

## Yr 9+10 Physics-15B.Magnetic Torque

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/35vvgw4ak8fb/n/Yr_9+10_Physics_15_B_PPT.zip">http://www.filefactory.com/file/35vvgw4ak8fb/n/Yr_9+10_Physics_15_B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rjoo87bix3h/n/Yr_9+10_Physics_15_B_DVD.zip">http://www.filefactory.com/file/5rjoo87bix3h/n/Yr_9+10_Physics_15_B_DVD.zip</a>

### **Video**

[https://youtu.be/3Sh89cv\\_Xec](https://youtu.be/3Sh89cv_Xec)

## Yr 9+10 Physics-16A.Wave Part 2

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1eh8mda8y185/n/Yr_9+10_Physics_16_A_PPT.zip">http://www.filefactory.com/file/1eh8mda8y185/n/Yr_9+10_Physics_16_A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/58mol4zgvrn/n/Yr_9+10_Physics_16A_DVD.zip">http://www.filefactory.com/file/58mol4zgvrn/n/Yr_9+10_Physics_16A_DVD.zip</a>

### **Video**

<https://youtu.be/Agf4NANG1Tw>

## Yr 9+10 Physics-16B.Standing Waves in wire

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1mg49e17f6kl/n/Yr_9+10_Physics_16B_PPT.zip">http://www.filefactory.com/file/1mg49e17f6kl/n/Yr_9+10_Physics_16B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/39hymtmtahft/n/Yr_9+10_Physics_16B_DVD.zip">http://www.filefactory.com/file/39hymtmtahft/n/Yr_9+10_Physics_16B_DVD.zip</a>



## **Video**

<https://youtu.be/E1hRveCdiVk>

## **EXERCISES**

[www.highlightcomputer.com/Y9101112Exercises.pdf](http://www.highlightcomputer.com/Y9101112Exercises.pdf)

## YEAR 7 TO 12 STUDY SUPPORT PROGRAM

Pre-vocational Program for Engineering, Information Technology & Business Management

- **Pre-vocational Program for the students who have not passed Year 10 in Myanmar to attend the Degree Programs of St Clements Technological University**

### Pre-vocational Program & Vocational & Higher education Studies Course Structure

[http://www.filefactory.com/file/2katcazit0ct/n/St\\_Clements\\_Technological\\_University\\_Scholarship\\_E\\_pdf](http://www.filefactory.com/file/2katcazit0ct/n/St_Clements_Technological_University_Scholarship_E_pdf)

#### **(1) Links for Powerpoints & Computer**

The folders in the following links contain the Power-points files that can be played by the computer.

[http://www.filefactory.com/file/30p22rk6u1zz/n/Prevocational\\_Course\\_for\\_Engineering\\_IT\\_htm](http://www.filefactory.com/file/30p22rk6u1zz/n/Prevocational_Course_for_Engineering_IT_htm)

#### **(2) Links for DVD Players**

<http://www.highlightcomputergroup4.zoomshare.com/files/school.htm>

The folders in the following links contain the JPG & MP3 files that can be played by the following Portable DVD Player.

#### **Portable DVD Player**

[http://www.filefactory.com/file/fzv47mhtg73/n/Portable\\_DVD\\_Player\\_pdf](http://www.filefactory.com/file/fzv47mhtg73/n/Portable_DVD_Player_pdf)

#### **CGVE 401 Year 11+12 Maths V1**

[http://www.filefactory.com/file/4y9iouqnve49/n/CGVE\\_401\\_Year\\_11\\_12\\_Maths\\_V1\\_zip](http://www.filefactory.com/file/4y9iouqnve49/n/CGVE_401_Year_11_12_Maths_V1_zip)

#### **CGVE 402 Year 11+12 Physics 2 V1**

[http://www.filefactory.com/file/li9u47tmbaz/n/CGVE\\_402\\_Year\\_11\\_12\\_Physics\\_2\\_V1\\_zip](http://www.filefactory.com/file/li9u47tmbaz/n/CGVE_402_Year_11_12_Physics_2_V1_zip)

## CGVE 403 Year 11+12 Software Design V1

[http://www.filefactory.com/file/4lh1613yoqu9/n/CGVE\\_403\\_Year\\_11\\_12\\_Software\\_Design\\_V1.zip](http://www.filefactory.com/file/4lh1613yoqu9/n/CGVE_403_Year_11_12_Software_Design_V1.zip)

## CGVE 404 Year 11+12 Science V1

[http://www.filefactory.com/file/2h5el5pkwve5/n/CGVE\\_404\\_Year\\_11\\_12\\_Science\\_V1.zip](http://www.filefactory.com/file/2h5el5pkwve5/n/CGVE_404_Year_11_12_Science_V1.zip)

## CGVE 405 Year 11+12 Design & Technology V1

[http://www.filefactory.com/file/i7gnk4lfoh/n/CGVE\\_405\\_Year\\_11\\_12\\_Design\\_amp\\_Technology\\_V1.zip](http://www.filefactory.com/file/i7gnk4lfoh/n/CGVE_405_Year_11_12_Design_amp_Technology_V1.zip)

## CGVE 406 Year 11+12 Chemistry V1

[http://www.filefactory.com/file/7b1obo03kiq1/n/CGVE\\_406\\_Year\\_11\\_12\\_Chemistry\\_V1.zip](http://www.filefactory.com/file/7b1obo03kiq1/n/CGVE_406_Year_11_12_Chemistry_V1.zip)

## CGVE 410 Industrial Technology V1

[http://www.filefactory.com/file/1zh9pkn4vx67/n/CGVE\\_410\\_Industrial\\_Technology\\_V1\\_Part\\_1.zip](http://www.filefactory.com/file/1zh9pkn4vx67/n/CGVE_410_Industrial_Technology_V1_Part_1.zip)

[http://www.filefactory.com/file/2idd8993qq6x/n/CGVE\\_410\\_Industrial\\_Technology\\_V1\\_Part\\_2.zip](http://www.filefactory.com/file/2idd8993qq6x/n/CGVE_410_Industrial_Technology_V1_Part_2.zip)

## School Studies Support Resources for Myanmar Buddhist Monastery Schools

### (Free access for general public)

The following links contain Year K to 6 & Year 7 to 12 curriculum resources& Study materials in Australian Education Standard.

Study support lessons are prepared in the following aspects

- (1) English & Myanmar tutoring lessons are prepared in power points & videos.
- (2) The lessons are being uploaded as well as saved in USB, CD, [DVD](#) and
- (3) Donate them together with books, CD player, DVD players, TV monitor ,computers and electrical power supplies to Myanmar Buddhist Monastery Schools in needs.

### **Certificate in General & Vocational Education Level (3)**

#### **CGVE 301+302+303**

CGVE301- Maths  
CGVE302-Science  
CGVE303 Information Processing

Year 9+10 Maths+ Science+ Information Processing

#### **Textbook**

[http://www.filefactory.com/file/3e4c2olv9hzj/n/Yr\\_9\\_10\\_Maths\\_Science\\_Information\\_Processing\\_pdf](http://www.filefactory.com/file/3e4c2olv9hzj/n/Yr_9_10_Maths_Science_Information_Processing_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/6wd5iqersoiz/n/Inf\\_Process\\_zip](http://www.filefactory.com/file/6wd5iqersoiz/n/Inf_Process_zip)

### **Certificate in General & Vocational Education Level (4)**

CGVE 406 Year 11+12 HSC Chemistry

#### **Text book**

[http://www.filefactory.com/file/22qy5jtmyikp/n/Yr\\_11\\_12\\_HSC\\_Chemistry\\_pdf](http://www.filefactory.com/file/22qy5jtmyikp/n/Yr_11_12_HSC_Chemistry_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/1w0mfev15p2x/n/Chemistry\\_zip](http://www.filefactory.com/file/1w0mfev15p2x/n/Chemistry_zip)

### **Certificate in General & Vocational Education Level (4)**

CGVE 401 Year 11+12 HSC Maths

[http://www.filefactory.com/file/3cafch1pnt77/n/Yr\\_11\\_12\\_HSC\\_Maths\\_pdf](http://www.filefactory.com/file/3cafch1pnt77/n/Yr_11_12_HSC_Maths_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/3lpp9lk2i9d/n/Maths\\_zip](http://www.filefactory.com/file/3lpp9lk2i9d/n/Maths_zip)

#### **Certificate in General & Vocational Education Level (4)**

CGVE 402+404+405

Year 11+12 HSC Physics+ Science + Design & Technology

#### **Text book**

[http://www.filefactory.com/file/19jkrxnqkqz/n/Yr\\_11\\_12\\_HSC\\_Physics\\_Science\\_Design\\_Technology\\_pdf](http://www.filefactory.com/file/19jkrxnqkqz/n/Yr_11_12_HSC_Physics_Science_Design_Technology_pdf)

CGVE402-Physics

#### **Curriculum**

[http://www.filefactory.com/file/5l379ts48ocv/n/Physics\\_zip](http://www.filefactory.com/file/5l379ts48ocv/n/Physics_zip)

CGVE404 Science

#### **Curriculum**

[http://www.filefactory.com/file/bteirsv3sy3/n/Science\\_zip](http://www.filefactory.com/file/bteirsv3sy3/n/Science_zip)

CGVE405 Design & Technology

#### **Curriculum**

[http://www.filefactory.com/file/2o7sfnapua25/n/DST\\_zip](http://www.filefactory.com/file/2o7sfnapua25/n/DST_zip)

#### **Certificate in General & Vocational Education Level (4)**

CGVE 407+408+403

Year 11+12 HSC Statistics+ Introductory Physics+Software Design

CGVE407 Statistics

CGVE408 Introductory Physics

CGVE403 Software Design

### **Textbook**

- [http://www.filefactory.com/file/41tsefd61atv/n/Yr\\_11\\_12\\_HSC\\_Statistics\\_2Unit\\_Physics\\_Software\\_Design\\_pdf](http://www.filefactory.com/file/41tsefd61atv/n/Yr_11_12_HSC_Statistics_2Unit_Physics_Software_Design_pdf)

### **Curriculum**

- [http://www.filefactory.com/file/63mupkbbkhg1/n/Software\\_Design\\_dev\\_zip](http://www.filefactory.com/file/63mupkbbkhg1/n/Software_Design_dev_zip)

### **Certificate in General & Vocational Education Level (4)**

- CGVE 409 Construction

### **Curriculum**

- [http://www.filefactory.com/file/1eid0wv7slvp/n/Construction\\_zip](http://www.filefactory.com/file/1eid0wv7slvp/n/Construction_zip)

CGVE 410 Industrial Technology

### **Curriculum**

- [http://www.filefactory.com/file/1m8x28kcg0xb/n/Ind\\_Tech\\_zip](http://www.filefactory.com/file/1m8x28kcg0xb/n/Ind_Tech_zip)

CGVE 411 Information Technology

CGVE 412 Information Process

### **Curriculum**

- [http://www.filefactory.com/file/owuf6zwnw57/n/IT\\_zip](http://www.filefactory.com/file/owuf6zwnw57/n/IT_zip)

CGVE 413 Metal & Engineering

### **Curriculum**

- [http://www.filefactory.com/file/1j1x3g7qwwwz/n/Metal\\_amp\\_Engg\\_zip](http://www.filefactory.com/file/1j1x3g7qwwwz/n/Metal_amp_Engg_zip)

[http://www.filefactory.com/file/7b2s5vinkaor/n/Engg\\_Study\\_zip](http://www.filefactory.com/file/7b2s5vinkaor/n/Engg_Study_zip)

### **Certificate in General & Vocational Education Level ( 3 & 4) Vocational Subjects**

**CGVE 420 Vocational- Business**

**(Curriculum)**

[http://www.filefactory.com/file/33b2dhe09ewx/n/Yr\\_9\\_to\\_12\\_Vocational\\_Business\\_zip](http://www.filefactory.com/file/33b2dhe09ewx/n/Yr_9_to_12_Vocational_Business_zip)

**CGVE 430 Vocational-Agri Business**

**(Curriculum)**

[http://www.filefactory.com/file/3wjjw8322rbx/n/Yr\\_9\\_to\\_12\\_Vocational\\_Agri\\_Business\\_zip](http://www.filefactory.com/file/3wjjw8322rbx/n/Yr_9_to_12_Vocational_Agri_Business_zip)

**CGVE 440 Vocational-Arts**

**(Curriculum)**

[http://www.filefactory.com/file/4r7pvx63gmzh/n/Yr\\_9\\_to\\_12\\_Vocational-Arts\\_zip](http://www.filefactory.com/file/4r7pvx63gmzh/n/Yr_9_to_12_Vocational-Arts_zip)

**CGVE 450 Vocational-Engineering & Technology**

**(Curriculum)**

[http://www.filefactory.com/file/1i7teaxpew0n/n/Ind\\_Tech\\_zip](http://www.filefactory.com/file/1i7teaxpew0n/n/Ind_Tech_zip)

**Certificate in General & Vocational Education Level ( 1 ) Year 7 & 8**

**CGVE 101 Citizen & Society**

**Curriculum**

[http://www.filefactory.com/file/2p6suzph8wzx/n/Citizen\\_Society\\_zip](http://www.filefactory.com/file/2p6suzph8wzx/n/Citizen_Society_zip)

**CGVE 102 English**

**Curriculum**

[http://www.filefactory.com/file/3iifpbdqoenb/n/English\\_zip](http://www.filefactory.com/file/3iifpbdqoenb/n/English_zip)

**CGVE 103 Mathematics**

**Curriculum**

[http://www.filefactory.com/file/3vp8c7q1ckzv/n/Mathematics\\_zip](http://www.filefactory.com/file/3vp8c7q1ckzv/n/Mathematics_zip)

**CGVE 104 Science**

**Curriculum**

[http://www.filefactory.com/file/4z5dn3490v2h/n/Science\\_zip](http://www.filefactory.com/file/4z5dn3490v2h/n/Science_zip)

**CGVE 105 Physical Education**

**Curriculum**

[http://www.filefactory.com/file/6dzmpik399qp/n/PHDHPE\\_zip](http://www.filefactory.com/file/6dzmpik399qp/n/PHDHPE_zip)

**CGVE 106 Arts**

**Curriculum**

<http://www.filefactory.com/file/47362h0h9jx9/Arts.zip>

**Certificate in General & Vocational Education Level ( 2 ) Year 9**

**CGVE 201 Physical Education**

**Curriculum**

[http://www.filefactory.com/file/1f54zkzpgla9/n/PHDHPE\\_zip](http://www.filefactory.com/file/1f54zkzpgla9/n/PHDHPE_zip)

**CGVE 202 Physics**



### **Curriculum**

[http://www.filefactory.com/file/3fpe8kila2nr/n/Physics\\_zip](http://www.filefactory.com/file/3fpe8kila2nr/n/Physics_zip)

### **CGVE 203 Mathematics**

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### **Curriculum**

<http://www.filefactory.com/file/1s2n9ye0z97t/Mathematics.zip>

### **CGVE 204 Chemistry**

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### **Curriculum**

[http://www.filefactory.com/file/3r74jz8oh5en/n/Chemistry\\_zip](http://www.filefactory.com/file/3r74jz8oh5en/n/Chemistry_zip)

### **CGVE 205 Technology**

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### **Curriculum**

[http://www.filefactory.com/file/62ms3x30h8aj/n/Technology\\_zip](http://www.filefactory.com/file/62ms3x30h8aj/n/Technology_zip)

### **CGVE 206 Biology**

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### **Curriculum**

[http://www.filefactory.com/file/6chjfh07tfzj/n/Biology\\_zip](http://www.filefactory.com/file/6chjfh07tfzj/n/Biology_zip)

### **CGVE 207 English**

-

### **Curriculum**

[http://www.filefactory.com/file/74qa5f0wvp7j/n/English\\_zip](http://www.filefactory.com/file/74qa5f0wvp7j/n/English_zip)

**CGVE 208 Design& Technology**

**Curriculum**

[http://www.filefactory.com/file/5l38j9dpswr1/n/DST\\_zip](http://www.filefactory.com/file/5l38j9dpswr1/n/DST_zip)

# MYANMAR BUDDHIST SCHOOLS & VOLUNTARY SCHOOLS STUDY SUPPORT WEBSITE

This website contains English+ Myanmar Explanations of the tutoring lessons based on New South Wales & Western Australian school curriculum subjects.

<http://www.highlightcomputer.com/y712lessons.htm>

<a href="#">Year 11+12 Lessons</a>	<a href="#">Year 9+10 Lessons</a>	<a href="#">Certificate to Degree</a>	<a href="#">Volunteer Teachers Professional Development</a>
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The aim to develop this site is to provide the tutoring support for the students in Myanmar Buddhist Schools and Voluntary Schools including NLD Education Network Schools to acquire the international standard school education.

By studying the contents of this site, the students will acquire the following benefits

- Reading+ Listening skills in English Language
- Acquire Australian School Education
- Use of IT Skills in E- Learning
- Self learning practice

The lessons can be learnt by two ways

- Viewing the power-point lessons by using computer
- Viewing the JPEG image files and listening MP3 Audio files by using Portable DVD Players which are donated to Myanmar Buddhist Schools & Voluntary Schools

The students need to

- View the Lessons
- Copy the lessons
- Listen to both Myanmar & English Explanations of the lessons
- Do the exercises and submit the assignments

- Sit the examinations

The facilitators/ co-ordinators need to

- Download the lessons & unzip them
- Show the students which folders are to be studied on weekly basis by using computer or Portable DVD Player
- Supervise the students in their learning

### **The Teacher who prepares the lessons**

**Sayar U Kyaw Naing** Ed.D (STCTU),BE(EP)RIT,AGTI(EP)Pyi, MSEE(USA),M.Sc (Science Education)Curtin University-Western Australia,  
Post Grad Dip Sc Ed(Curtin), Grad Dip Ed (Adult Vocational Education)(TAFE-NSW),Cert IV TAE40110, MIEAust, RPEQ

Registered Teacher (Western Australian Teacher Registration Board)

Teacher of Electrical Engineering (TAFE-NSW)

## **WRITTEN LESSONS+AUDIO FILES**

### **Year 11+12**

### **MATHEMATICS**

[www.iqytechnicalcollege.com/Yr1112Maths1.zip](http://www.iqytechnicalcollege.com/Yr1112Maths1.zip)

### **PHYSICS**

[www.iqytechnicalcollege.com/Yr1112Physics.zip](http://www.iqytechnicalcollege.com/Yr1112Physics.zip)

### **CHEMISTRY**

[www.iqytechnicalcollege.com/Yr1112Chemistry.zip](http://www.iqytechnicalcollege.com/Yr1112Chemistry.zip)

### **SCIENCE**

[www.iqytechnicalcollege.com/Yr1112Science.zip](http://www.iqytechnicalcollege.com/Yr1112Science.zip)

## **DESIGN & TECHNOLOGY**

[www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip](http://www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip)

## **SOFTWARE DESIGN**

[www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip](http://www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip)

# VIDEOS

### **Year 11+12 WEEK 1**

#### **Mathematics**

Yr 11+12 Maths 1-Rationals, Polynomials, Equations **Maths (001) Yr11+12 to Maths (021) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip">http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip">http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip</a>

Video

<https://youtu.be/afPIKAOmLrA>

#### **Chemistry**

Yr 11+12 Chemistry 1-Carbon Chemistry **Chemistry (001) Y11+12 to Chemistry (042) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip">http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip">http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip</a>

## Design & Technology

Yr 11+12 Design & Technology 1-Basic Concepts **DesignTech (001) Y11+12 to Design Tech (029) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip">http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7ey1mbqjmjsg1/Yr_11_12_Design_Technology_1_DVD_zip">http://www.filefactory.com/file/7ey1mbqjmjsg1/Yr_11_12_Design_Technology_1_DVD_zip</a>

Video

<https://youtu.be/6cnLVR3BHeg>

## Physics

Yr 11+12 Physics 1-Gravity **Physics (001) Y11+12 to Physics (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip">http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip">http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip</a>

Video

<https://youtu.be/lxXmAfYWayc>

## Science

Yr 11+12 Science 1A-Physical and chemical properties of everyday substances **Science (001) Y11+12 to Science (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip">http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip">http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip</a>

## Software Design

Yr 11+12 Software Design 1-Rights and responsibilities of software developers **Software (001) Y11+12 to Software (027) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip">http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip">http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip</a>

Video

<https://youtu.be/mPBjzZnjHwU>

**Year 11+12 WEEK 2**

**Mathematics**

Yr 11+12 Maths 2-Circle Geometry **Maths (022) Yr11+12 to Maths (047) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip">http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip">http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip</a>

Video

<https://youtu.be/KxFAPQQBEec>

**Chemistry**

Yr 11+12 Chemistry 2a-Industrial uses & production of Organic Compounds **Chemistry (043) Y11+12 to Chemistry (085) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip">http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip">http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip</a>

**Design & Technology**

Yr 11+12 Design & Technology 2-Design Process **DesignTech (030) Y11+12 to Design Tech (050) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip">http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip">http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip</a>

DVD Player

Video

<https://youtu.be/AWMHwZuza4A>

### **Physics**

Yr 11+12 Physics 2-Projectile Motion **Physics (016) Y11+12 to Physics (058) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip">http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip">http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip</a>

Video

<https://youtu.be/QicnwF-pd9E>

### **Science**

Yr 11+12 Science 1B- Chemical effect on body skin **Science (035) Y11+12 to Science (077) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip">http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip">http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip</a>

Video

[https://youtu.be/kR\\_9\\_RMpBhM](https://youtu.be/kR_9_RMpBhM)

### **Software Design**

Yr 11+12 Software Design 2A- Software Development

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip">http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip">http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip</a>

Video

<https://youtu.be/ETaTh-p7S88>



## Year 11+12 WEEK 3

### Mathematics

Yr 11+12 Maths 3A-Plotting Graphs **Maths (048) Yr11+12 to Maths (073) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip">http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip">http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip</a>

Video

[https://youtu.be/V7DdiD\\_XXNg](https://youtu.be/V7DdiD_XXNg)

### Chemistry

Yr 11+12 Chemistry 3A-Electro-Chemistry **Chemistry (0086) Y11+12 to Chemistry (110) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip">http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip">http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology 3-Design Professions **DesignTech (051) Y11+12 to Design Tech (0062) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip">http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip">http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip</a>

Video

<https://youtu.be/WtpkEztrFHA>

### Physics

Yr 11+12 Physics 3-Newton Law of Universal Gravitation **Physics (059) Y11+12 to Physics (078) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip">http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip">http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip</a>
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Video

<https://youtu.be/7naPc7nLlv8>

## Science

Yr 11+12 Science 2A-Bionics **Science (078) Y11+12 to Science (130) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip">http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip">http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip</a>

Video

<https://youtu.be/zhUD3cC14AY>

## Software Design

Yr 11+12 Software Design 3A-Defining the problem **Software (054) Y11+12 to Software (091) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip">http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip">http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip</a>

Video

<https://youtu.be/L0XemUHW8Fg>

## Year 11+12 WEEK 4

## Mathematics

Yr 11+12 Maths 4 Quadratic equations **Maths (074) Yr11+12 to Maths (123) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip">http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip">http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip</a>

Video

<https://youtu.be/QNzf5Qhcho8>

## **Chemistry**

Yr 11+12 Chemistry3B Electrical Cells **Chemistry (111) Y11+12 to Chemistry (145) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip">http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip">http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip</a>

Video

[https://youtu.be/\\_OhRYtxiTS0](https://youtu.be/_OhRYtxiTS0)

## **Design & Technology**

Yr 11+12 Design & Technology 4-Factors affecting design **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip">http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip">http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip</a>

Video

<https://youtu.be/icoOEn26FZY>

## **Physics**

Yr 11+12 Physics 4-Measurement **Physics (0079) Y11+12 to Physics (095) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip">http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip">http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip</a>

Video

<https://youtu.be/5ObMFCjdTXM>

## **Science**

Yr 11+12 Science 3B-Communication system waves **Science (131) Y11+12 to Science (157) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip">http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip">http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip</a>

Video

<https://youtu.be/YISoC6caucE>

### Software Design

Yr 11+12 Software Design 3B-Modelling **Software (092) Y11+12 to Software (128) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip">http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip">http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip</a>

Video

<https://youtu.be/GDj4FremeOc>

### Year 11+12 WEEK 5

### Mathematics

Yr 11+12 Maths 5-Trigo Compound angles **Maths (124) Yr11+12 to Maths (133) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip">http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip">http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip</a>

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### Chemistry

Yr 11+12 Chemistry 3C-Electro-chemical Cells **Chemistry (146) Y11+12 to Chemistry (175) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip">http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip">http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip</a>

Video

<https://youtu.be/KnllmfAk1a4>

### **Design & Technology**

Yr 11+12 Design & Technology 5–Trends in Design Production **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip">http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip">http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip</a>

Video

<https://youtu.be/zO2LI1yzvAM>

### **Physics**

Yr 11+12 Physics 5A-Motor **Physics (096) Y11+12 to Physics (122) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip">http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip">http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip</a>

Video

<https://youtu.be/nKWckDIJpvA>

### **Science**

Yr 11+12 Science 4A-Fibres **Science (158) Y11+12 to Science (196) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip">http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip">http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip</a>

Video

<https://youtu.be/dUPn1De2iJA>

### **Software Design**

Yr 11+12 Software Design 4A–Design Patterns **Software (129) Y11+12 to Software (156) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip">http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip">http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip</a>

Video

<https://youtu.be/QAWiURC1X1M>

## **Year 11+12 WEEK 6**

### **Mathematics**

Yr 11+12 Maths –6 - Half Compound Angles **Maths (134) Yr11+12 to Maths (151) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip">http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip">http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip</a>

Video

<https://youtu.be/sxJcFi9JrPo>

### **Chemistry**

Yr 11+12 Chemistry –4A- Nuclear Chemistry **Chemistry (176) Y11+12 to Chemistry (211) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip">http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip">http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip</a>

Video

<https://youtu.be/-pYr7fxYEDw>

### **Design & Technology**

Yr 11+12 Design & Technology –6 - Design Techniques **DesignTech (162) Y11+12 to Design Tech (169) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip">http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip">http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip</a>

DVD Player

Video

<https://youtu.be/W6YSsRSe8QE>

### **Physics**

Yr 11+12 Physics –5B--DC Machines **Physics (123) Y11+12 to Physics (163) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip">http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6mk0jia1lmbv/Yr_11_12_Physics_5B_DVD_zip">http://www.filefactory.com/file/6mk0jia1lmbv/Yr_11_12_Physics_5B_DVD_zip</a>

Video

<https://youtu.be/OYvfoxZYvc>

### **Science**

Yr 11+12 Science -4B—Plastics **Science (197) Y11+12 to Science (228) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip">http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip">http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip</a>

Video

<https://youtu.be/se-3r2FdnNA>

### **Software Design**

Yr 11+12 Software Design 4B–Program Testing **Software (157) Y11+12 to Software (191) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip">http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip">http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip</a>

Video

<https://youtu.be/oBSGhNtW1iA>

### **Year 11+12 WEEK 7**

## **Mathematics**

Yr 11+12 Maths 7--Trigo Problems **Maths (152) Yr11+12 to Maths (155) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip">http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip">http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip</a>

Video

<https://youtu.be/7UxTaL-DCKk>

## **Chemistry**

Yr 11+12 Chemistry -4B--Nuclear Chemistry **Chemistry (212) Y11+12 to Chemistry (244) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip">http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip">http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip</a>

Video

<https://youtu.be/f6OaItASWfQ>

## **Design & Technology**

Yr 11+12 Design & Technology -7--Historical Cultural Influences **DesignTech (170) Y11+12 to Design Tech (170) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip">http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip">http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip</a>

Video

<https://youtu.be/jwKCsOyyJ7M>

## **Physics**

Yr 11+12 Physics 6---Generator **Physics (164) Y11+12 to Physics (174) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip">http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip">http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip</a>
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Video

<https://youtu.be/p-4hyJPMPMA>

## **Science**

Yr 11+12 Science -5A--Consumers' Products, Additives, Micro-organisms **Science (229) Y11+12 to Science (251) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip">http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip">http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip</a>

Video

<https://youtu.be/dUTGrwp49uA>

## **Software Design**

Yr 11+12 Software Design 4C -Arrays **Software (192) Y11+12 to Software (232) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2smhczi007/Yr_11_12_Software_Design_4C_PPT_zip">http://www.filefactory.com/file/2smhczi007/Yr_11_12_Software_Design_4C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip">http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip</a>

Video

<https://youtu.be/kHqLfDleww0>

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## **Year 11+12 WEEK 8**

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## **Chemistry**

Yr 11+12 Chemistry 5A-Properties of Acidic Oxides **Chemistry (245) Y11+12 to Chemistry (287) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip">http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip">http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip</a>
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## **Design & Technology**

Yr 11+12 Design & Technology –8-Creative & Collaborative Approaches in Design **DesignTech (171) Y11+12 to Design Tech (186) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip">http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip">http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip</a>

Video

<https://youtu.be/8W5DBEQ4Obk>

## **Physics**

Yr 11+12 Physics 7-Transformer **Physics (175) Y11+12 to Physics (201) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip">http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip">http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip</a>

Video

<https://youtu.be/jLFkXvMrQQw>

## **Science**

Yr 11+12 Science 5B–Microbes+ Natural Preservatives **Science (252) Y11+12 to Science (290) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip">http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip">http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip</a>

Video

<https://youtu.be/15YTietVnWM>

## **Software Design**

Yr 11+12 Software Design 4D–String Processing **Software (233) Y11+12 to Software (282) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip">http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip">http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip</a>

Video

<https://youtu.be/zTfLtmMLLgQ>

### **Software Design 4E**

<https://youtu.be/3H8got5LotQ>

### **Year 11+12 WEEK 9**

### **Mathematics**

Yr 11+12 Maths –8-Trigo Equations **Maths (156) Yr11+12 to Maths (180) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip">http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip">http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip</a>

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### **Chemistry**

Yr 11+12 Chemistry 5B–Properties of Acidic Oxides **Chemistry (288) Y11+12 to Chemistry (302) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip">http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip">http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip</a>

Video

<https://youtu.be/dAwX6y1fYSE>

### **Chemistry 6**

<https://youtu.be/CcgvTmll8Xg>

## Chemistry 6A

[https://youtu.be/\\_xRKf4aTIR8](https://youtu.be/_xRKf4aTIR8)

## Chemistry 6B

<https://youtu.be/7iWtCGIb7q4>

## Design & Technology

Yr 11+12 Design & Technology 9 –Design Solutions/ Design Briefs **DesignTech (187) Y11+12 to Design Tech (221) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip">http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip">http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip</a>

Video

<https://youtu.be/XI9svBSy0TM>

## Physics

Yr 11+12 Physics -8–Magnetisms & Moving Charges **Physics (202) Y11+12 to Physics (234) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip">http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip">http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip</a>

Video

<https://youtu.be/OPb0nrH6AaQ>

## Science

Yr 11+12 Science 6B – Circulatory System **Science (291) Y11+12 to Science (329) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip">http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip">http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip</a>

Video

Science 6A

<https://youtu.be/iQKITWfvEXQ>

Software Design

Yr 11+12 Software Design 5A-Interface Design **Software (283) Y11+12 to Software (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip">http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip">http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip</a>

Video

<https://youtu.be/xLxGd21ir8Q>

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Year 11+12 WEEK 10

Mathematics

Yr 11+12 Maths -9-Parabola **Maths (181) Yr11+12 to Maths (198) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip">http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip">http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip</a>

Video

<https://youtu.be/BJh6SRDxzVo>

Chemistry

Yr 11+12 Chemistry 7A -Application of PH **Chemistry (303) Y11+12 to Chemistry (348) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip">http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip">http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip</a>

Video

<https://youtu.be/VxBslUBsjTA>

### **Design & Technology**

Yr 11+12 Design & Technology 10A–Research Data Presentation **DesignTech (222) Y11+12 to Design Tech (286) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip">http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip">http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip</a>

Video

<https://youtu.be/ffQDLDFs54>

### **Design & Technology 10B**

<https://youtu.be/97Y7RNtkVjY>

### **Science**

Yr 11+12 Science 6C–Reproduction of Bacteria **Science (330) Y11+12 to Science (357) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip">http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip">http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 5B –Random Number Generator **Software (316) Y11+12 to Software (378) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip">http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip">http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip</a>

Video

<https://youtu.be/kg7cnxAb4D0>

### Year 11+12 WEEK 11

#### Chemistry

Yr 11+12 Chemistry 7B–Volumetric Analysis Titration **Chemistry (341) Y11+12 to Chemistry (373) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip">http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip">http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip</a>

Video

<https://youtu.be/5taFWZTGZ3I>

#### Design & Technology

Yr 11+12 Design & Technology 11-Marketing **DesignTech (287) Y11+12 to Design Tech (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip">http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip">http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip</a>

Video

<https://youtu.be/rpfdjbjlo90>

#### Science

Yr 11+12 Science 7A –Disasters **Science (358) Y11+12 to Science (418) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip">http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/69lgpi78j9xp/Yr_11_12_Science_7A_DVD_zip">http://www.filefactory.com/file/69lgpi78j9xp/Yr_11_12_Science_7A_DVD_zip</a>

#### Software Design

Yr 11+12 Software Design 5C–Program Counter+DLL +Compilation **Software (344) Y11+12 to Software (344) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip">http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip">http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip</a>

Video

<https://youtu.be/72CfwGKaY1s>

## **Year 11+12 WEEK 12**

### **Mathematics**

Yr 11+12 Maths-10 –Parametric Equations+ Permutation+ Combinations **Maths (199) Yr11+12 to Maths (224) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip">http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip">http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip</a>

Video

<https://youtu.be/Mzfxj6lydeQ>

### **Maths 11**

[https://youtu.be/4KFClr\\_MVyc](https://youtu.be/4KFClr_MVyc)

### **Chemistry**

Yr 11+12 Chemistry-8–Titration+ Esters

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip</a>

Video

<https://youtu.be/79ZBL1h8CBA>

### **Design & Technology**

Yr 11+12 Design & Technology-12 –Communications **DesignTech (317) Y11+12 to Design Tech (353) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip">http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip">http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip</a>

Video

<https://youtu.be/drEiGJX0dsc>

## Science

Yr 11+12 Science-7B –Seismic Waves+ Bush Fires **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip">http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip">http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip</a>

## Software Design

Yr 11+12 Software Design-5D –Optimiser **Software (379) Y11+12 to Software (410) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip">http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip">http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip</a>

Video

<https://youtu.be/lldV4rbjv30>

## Year 11+12 WEEK 13

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## Chemistry

Yr 11+12 Chemistry-8 -Titration+ Esters **Chemistry (374) Y11+12 to Chemistry (407) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip</a>

DVD Player	
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### Design & Technology

Yr 11+12 Design & Technology-13 –Computer Based Technologies **DesignTech (354) Y11+12 to Design Tech (392) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip">http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip">http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip</a>

Video

<https://youtu.be/lbZ3cwYPL9g>

<https://youtu.be/4z-CmJrepHk>

### Science

Yr 11+12 Science-8A –Atmosphere + Space Craft **Science (419) Y11+12 to Science (442) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip">http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip">http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip</a>

### Software Design

Yr 11+12 Software Design-5E –Documentations of Software Solutions **Software (411) Y11+12 to Software (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip">http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip">http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip</a>

Video

<https://youtu.be/VW4fk5sV4p4>

**Year 11+12 WEEK 14**

### Mathematics

Yr 11+12 Maths-12 –Factor Theorem + Remainder Theorem **Maths (225) Yr11+12 to Maths (240) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip">http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip">http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip</a>

Video

<https://youtu.be/20u2Jx6xnbw>

## **Chemistry**

Yr 11+12 Chemistry-9A –The Work of Chemist **Chemistry (408) Y11+12 to Chemistry (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip">http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip</a>

Video

<https://youtu.be/eepO1GLhtns>

## **Design & Technology**

Yr 11+12 Design & Technology 14B Management **DesignTech (393) Y11+12 to Design Tech (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

## **Design & Technology 14A**

<https://youtu.be/tK545SK9Tao>

## **Science**

Yr 11+12 Science -8B–Space Technology **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip">http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip">http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip</a>
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### Software Design

Yr 11+12 Software Design-6A –Testing the software solution **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip">http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip">http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip</a>

Video

<https://youtu.be/JwyNceTj5JI>

### Year 11+12 WEEK 15

### Mathematics

Yr 11+12 Maths-13 –Graphing Polynomials + Integration **Maths (241) Yr11+12 to Maths (258) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip">http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip">http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip</a>

Video

<https://youtu.be/hU00Wdtm8H0>

### Chemistry

Yr 11+12 Chemistry 9A –The work of chemist **Chemistry (434) Y11+12 to Chemistry (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology -14A-Managers+ Management Styles **DesignTech (434) Y11+12 to Design Tech (439) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip">http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

**Design & Technology 14B**

<https://youtu.be/j7DxOusOtfM>

**Science**

Yr 11+12 Science-8C –Optical Telescope **Science (474) Y11+12 to Science (516) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip">http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip">http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip</a>

**Software Design**

Yr 11+12 Software Design-6B –Driver Module **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip">http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip">http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip</a>

Video

<https://youtu.be/vu3bOR9KtrU>

**Year 11+12 WEEK 16**

**Mathematics**

Yr 11+12 Maths 14 Integration Approximation **Maths (259) Yr11+12 to Maths (268) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip">http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip">http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip</a>
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Video

<https://youtu.be/BxoPyYDoSHk>

### **Chemistry**

Yr 11+12 Chemistry 9B –Atomic Absorption+ Spectrograph **Chemistry (445) Y11+12 to Chemistry (458) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip">http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

Video

<https://youtu.be/z9efzQuNePg>

### **Design & Technology**

Yr 11+12 Design & Technology -15–Organizational Structure **DesignTech (440) Y11+12 to Design Tech (463) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip">http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip">http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip</a>

Video

<https://youtu.be/xpbDhFJrLVo>

### **Science**

Yr 11+12 Science-6A –Central peripheral nervous system

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip">http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip">http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip</a>

Video

### **Science 6B**

<https://youtu.be/WzxCKpDquBI>

Science 6C

<https://youtu.be/raUa04nYcho>

Science 7A

<https://youtu.be/vhBQ7GliPSw>

Science 7B

[https://youtu.be/KjO\\_SLcRIsQ](https://youtu.be/KjO_SLcRIsQ)

Science 8A

<https://youtu.be/Guv-3nThBiM>

Science 8B

[https://youtu.be/8oMPx36Q\\_Pc](https://youtu.be/8oMPx36Q_Pc)

Software Design

Yr 11+12 Software Design-7 –Code Modification **Software (506) Y11+12 to Software (530) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip">http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip">http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip</a>

Video

<https://youtu.be/dKbdvz-vN8s>

**Year 11+12 WEEK 17**

**Mathematics**

Yr 11+12 Maths -15–Graphing Inverse Function **Maths (269) Yr11+12 to Maths (290) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip">http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip">http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip</a>

Video

<https://youtu.be/RXmABGXM3To>

### **Chemistry**

Yr 11+12 Chemistry -10A-Isomers+ Ozone + Water Analysis **Chemistry (459) Y11+12 to Chemistry (506) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/252l7enlc23j/Yr_11_12_Chemistry_10A_PPT_zip">http://www.filefactory.com/file/252l7enlc23j/Yr 11 12 Chemistry 10A PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17ocelpd5eol/Yr_11_12_Chemistry_10A_DVD_zip">http://www.filefactory.com/file/17ocelpd5eol/Yr 11 12 Chemistry 10A DVD zip</a>

Video

<https://youtu.be/9lCeJpMExqU>

### **Design & Technology**

Yr 11+12 Design & Technology-16 –Safety Issues **DesignTech (466) Y11+12 to Design Tech (488) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5vhtwszqhb3/Yr_11_12_Design_amp_Technology_16_PPT_zip">http://www.filefactory.com/file/5vhtwszqhb3/Yr 11 12 Design amp Technology 16 PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/14skzslec8a5/Yr_11_12_Design_amp_Technology_16_DVD_zip">http://www.filefactory.com/file/14skzslec8a5/Yr 11 12 Design amp Technology 16 DVD zip</a>

Video

<https://youtu.be/AuYSNtmo-IM>

### **Year 11+12 WEEK 18**

### **Mathematics**

Yr 11+12 Maths-16 –Trigo Evaluation **Maths (291) Yr11+12 to Maths (307) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip">http://www.filefactory.com/file/5zb7nx7gbde1/Yr 11 12 Maths-16 PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip">http://www.filefactory.com/file/5h29fm9lbw7v/Yr 11 12 Maths-16 DVD zip</a>

Video



<https://youtu.be/LGLHqnoVeS8>

### **Chemistry**

Yr 11+12 Chemistry-10B –Heavy Metal Pollution of Water **Chemistry (507) Y11+12 to Chemistry (541) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3ybo7fsparon/Yr_11_12_Chemistry_10B_PPT_zip">http://www.filefactory.com/file/3ybo7fsparon/Yr_11_12_Chemistry_10B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2dbgudauuujh/Yr_11_12_Chemistry_10B_DVD_zip">http://www.filefactory.com/file/2dbgudauuujh/Yr_11_12_Chemistry_10B_DVD_zip</a>

Video

<https://youtu.be/lhJEjJpz11s>

### **Design & Technology**

Yr 11+12 Design & Technology 17- Evaluation **DesignTech (489) Y11+12 to Design Tech (517) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/yfisrp2mvp9/Yr_11_12_Design_amp_Technology_17_PPT_zip">http://www.filefactory.com/file/yfisrp2mvp9/Yr_11_12_Design_amp_Technology_17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wttf2utmwuf/Yr_11_12_Design_amp_Technology_17_DVD_zip">http://www.filefactory.com/file/6wttf2utmwuf/Yr_11_12_Design_amp_Technology_17_DVD_zip</a>

Video

<https://youtu.be/98hxD-tn-Xs>

### **Software Design**

Yr 11+12 Software Design -8A–Defining problem and solution **Software (531) Y11+12 to Software (566) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ajj1hxfw091/Yr_11_12_Software_Design_8_A_PPT_zip">http://www.filefactory.com/file/ajj1hxfw091/Yr_11_12_Software_Design_8_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rpqkmmnlk6h3/Yr_11_12_Software_Design_8_A_DVD_zip">http://www.filefactory.com/file/1rpqkmmnlk6h3/Yr_11_12_Software_Design_8_A_DVD_zip</a>

Video

[https://youtu.be/tvv3Qp\\_2HQ8](https://youtu.be/tvv3Qp_2HQ8)

### **Year 11+12 WEEK 19**

### **Mathematics**

Yr 11+12 Maths-17 –Integration + Application of Calculus **Maths (308) Yr11+12 to Maths (328) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip">http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip">http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip</a>

Video

<https://youtu.be/hD6b2SBJ0Fs>

**Chemistry**

Yr 11+12 Chemistry-6A –Natural & manufactured acid

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip">http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip">http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip</a>

Video

<https://youtu.be/Fz6PeH8yokI>

**Design & Technology**

Yr 11+12 Design & Technology-14B –Managers and management style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

<https://youtu.be/9qgLkRtvWTY>

**Software Design**

Yr 11+12 Software Design -8–Selection of software environment / Document design **Software (567) Y11+12 to Software (587) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip">http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip">http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip</a>

DVD Player

Video

: <https://youtu.be/CrFG2YFFnuQ>

### **Year 11+12 WEEK 20**

#### **Mathematics**

Yr 11+12 Maths-18 –Application of Calculus **Maths (329) Yr11+12 to Maths (330) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip">http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip">http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip</a>

Video

<https://youtu.be/I5M3dwR-c-E>

#### **Design & Technology**

Yr 11+12 Design & Technology-18A –Innovation **DesignTech (518) Y11+12 to Design Tech (524) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip">http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip">http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip</a>

Video

<https://youtu.be/PtzEaqUQoEQ>

### **Year 11+12 WEEK 21**

#### **Mathematics**

Yr 11+12 Maths-19 –Simple Harmonic Oscillation **Maths (331) Yr11+12 to Maths (344) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip">http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip">http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip</a>

Video

[https://youtu.be/\\_zb8d71E-QU](https://youtu.be/_zb8d71E-QU)

<https://youtu.be/OQCjs7CsMy8>

### Design & Technology

Yr 11+12 Design & Technology 18B Elements of innovation **DesignTech (525) Y11+12 to Design Tech (568) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip">http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip">http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip</a>

Video

<https://youtu.be/mqluRwTe7yA>

### Software Design

Yr 11+12 Software Design-9A –Generation of programming languages **Software (588) Y11+12 to Software (593) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip">http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip">http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip</a>

Video

<https://youtu.be/li0qJAO-CfA>

### Year 11+12 WEEK 22

### Mathematics

Yr 11+12 Maths 20 –Projectile Motion **Maths (344) Yr11+12 to Maths (360) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip">http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip">http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip</a>

Video

<https://youtu.be/ZoFwF8xlxHA>

### **Design & Technology**

Yr 11+12 Design & Technology -14B-Manager + Management Style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip">http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 9B History of programming languages **Software (594) Y11+12 to Software (602) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip">http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip">http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip</a>

Video

<https://youtu.be/BMmEjoHh3fM>

### **Year 11+12 WEEK 23**

### **Mathematics**

Yr 11+12 Maths 21 –Binomial Theorem **Maths (361) Yr11+12 to Maths (370) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip">http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip">http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip</a>

Video

<https://youtu.be/BTGRHmEG5d0>

### **Design & Technology**

Yr 11+12 Design & Technology-19 –Emerging Technologies **DesignTech (569) Y11+12 to Design Tech (591) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip">http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip">http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip</a>

Video

<https://youtu.be/9k3wlaipqSU>

### Software Design

Yr 11+12 Software Design -10A-Representation of Computer Data **Software (603) Y11+12 to Software (626) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip">http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/60wacfsz8mcy/n/Yr_11+12_Software_Design_10A_DVD.zip">http://www.filefactory.com/file/60wacfsz8mcy/n/Yr_11+12_Software_Design_10A_DVD.zip</a>

### Year 11+12 WEEK 24

### Mathematics

Yr 11+12 Maths-22 -Probability+ Binomial Distribution **Maths (371) Yr11+12 to Maths (387) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4y86h0clohzy/Yr_11_12_Maths-22_PPT_zip">http://www.filefactory.com/file/4y86h0clohzy/Yr_11_12_Maths-22_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip">http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip</a>

Video

<https://youtu.be/Lw75Cy0fzHc>

### Design & Technology

Yr 11+12 Design & Technology 20A Impact of design activities on individual society & environment **DesignTech (600) Y11+12 to Design Tech (610) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip">http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip">http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip</a>

Video

<https://youtu.be/RbxiFlcA3Co>

### Software Design

Yr 11+12 Software Design 10B –Logic Gates **Software (627) Y11+12 to Software (643) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip">http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip">http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip</a>

### Year 11+12 WEEK 25

### Mathematics

Yr 11+12 Maths 23–Changing Recurring Decimals in to Fractions **Maths (388) Yr11+12 to Maths (393) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip">http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip">http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip</a>

Video

<https://youtu.be/F4jP4NVEiW0>

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Yr 11+12 Maths 24 –Simplifying Algebraic Expression **Maths (394) Yr11+12 to Maths (415) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip">http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip">http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip</a>

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<https://youtu.be/fvqNKi-dSyU>

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## Design & Technology

Yr 11+12 Design & Technology 20B –Water Pollution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip">http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip">http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip</a>

## Year 11+12 WEEK 26

### Mathematics

Yr 11+12 Maths 25 Solving simultaneous equations **Maths (416) Yr11+12 to Maths (434) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip">http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip">http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip</a>

Video

<https://youtu.be/bLRBZcM-zsk>

## Design & Technology

Yr 11+12 Design & Technology 21A–Innovation Case Studies **DesignTech (612) Y11+12 to Design Tech (630) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip">http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip">http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip</a>

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## Year 11+12 WEEK 27

### Mathematics

Yr 11+12 Maths 26 –Percentage , discount **Maths (435) Yr11+12 to Maths (438) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip">http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip">http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip</a>
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Video

<https://youtu.be/9DzrWJHKLBO>

### **Design & Technology**

Yr 11+12 Design & Technology 21B Innovation Case Studies- Designer Aspect

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip">http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip">http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip</a>

### **Year 11+12 WEEK 28**

### **Mathematics**

Yr 11+12 Maths 27 –Geometry problems solving **Maths (439) Yr11+12 to Maths (461) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip">http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip">http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip</a>

Video

<https://youtu.be/jLHR9IP5sTQ>

### **Design & Technology**

Yr 11+12 Design & Technology 22A–Major Design Project **DesignTech (611) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip">http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip</a>
Link for JPEG+MP3 to	<a href="http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip">http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip</a>

view with portable DVD Player	
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## **Year 11+12 WEEK 29**

### **Mathematics**

Yr 11+12 Maths 28- Trigo function values **Maths (462) Yr11+12 to Maths (485) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip">http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip">http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip</a>

Video

<https://youtu.be/5iMZP3dAHs8>

### **Design & Technology**

Yr 11+12 Design & Technology 22B-Major Design Project Development/ Evaluation **DesignTech (631) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip">http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip">http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip</a>

## **Year 11+12 WEEK 30**

### **Mathematics**

Yr 11+12 Maths 29-Trigo ratio values **Maths (486) Yr11+12 to Maths (498) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip">http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip">http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip</a>

Video

<https://youtu.be/ABEJoLGBntk>

### **Mathematics**

Yr 11+12 Maths 30–Trigo problems, angle of elevation **Maths (499) Yr11+12 to Maths (509) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip">http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip">http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip</a>

Video

<https://youtu.be/UU2OO8iW2nk>

### **Mathematics**

Yr 11+12 Maths31 – XY Line gradient **Maths (510) Yr11+12 to Maths (527) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip">http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip">http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip</a>

Video

<https://youtu.be/lwoTQF7lhSI>

### **Mathematics**

Yr 11+12 Maths 32 - Mid points between points **Maths (528) Yr11+12 to Maths (551) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip">http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip">http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip</a>

Video

[https://youtu.be/FTr\\_FM61jwE](https://youtu.be/FTr_FM61jwE)

### **Year 11+12 WEEK 31**

## Mathematics

Yr 11+12 Maths 33 Angle of inclination / Graphs of functions **Maths (552) Yr11+12 to Maths (571) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip">http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip">http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip</a>

Video

<https://youtu.be/uZxfV88QXlg>

## Mathematics

Yr 11+12 Maths 34 Locus & Parabola **Maths (572) Yr11+12 to Maths (591) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip">http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip">http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip</a>

Video

<https://youtu.be/nggwEsSMNIM>

## Mathematics

Yr 11+12 Maths 35 Series **Maths (592) Yr11+12 to Maths (609) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip">http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip">http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip</a>

Video

[https://youtu.be/sj6NW\\_p-N-w](https://youtu.be/sj6NW_p-N-w)

## Mathematics

Yr 11+12 Maths 36 Tangent & Derivatives of Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip">http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip">http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip</a>
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## **Year 11+12 WEEK 32**

### **Mathematics**

Yr 11+12 Maths 37 Application of Geometrical Properties

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip">http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip">http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 38 –Co-ordinate Methods in Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip">http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip">http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 39 Plotting graph/ Maxima & Minima

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip">http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip">http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 40 Definite Integral

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip">http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip">http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip</a>

### **Year 11+12 WEEK 33**

#### **Mathematics**

Yr 11+12 Maths 41 Exponential & Logarithmic Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip">http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip">http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 42 Trigonometric Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip">http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip">http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 43 Application of calculus to physical world

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip">http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip">http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip</a>

## Mathematics

Yr 11+12 Maths 44 Probability

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip">http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip">http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip</a>

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## Mathematics

Yr 11+12 Maths 45 Application of series

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip">http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip">http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip</a>

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## **EXERCISES**

[www.highlightcomputer.com/Y9101112Exercises.pdf](http://www.highlightcomputer.com/Y9101112Exercises.pdf)

# MYANMAR BUDDHIST SCHOOLS & VOLUNTARY SCHOOLS STUDY SUPPORT WEBSITE

This website contains English+ Myanmar Explanations of the tutoring lessons based on New South Wales & Western Australian school curriculum subjects.

<http://www.highlightcomputer.com/y712lessons.htm>

<a href="#">Year 11+12 Lessons</a>	<a href="#">Year 9+10 Lessons</a>	<a href="#">Certificate to Degree</a>	<a href="#">Volunteer Teachers Professional Development</a>
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The aim to develop this site is to provide the tutoring support for the students in Myanmar Buddhist Schools and Voluntary Schools including NLD Education Network Schools to acquire the international standard school education.

By studying the contents of this site, the students will acquire the following benefits

- Reading+ Listening skills in English Language
- Acquire Australian School Education
- Use of IT Skills in E- Learning
- Self learning practice

The lessons can be learnt by two ways

- Viewing the power-point lessons by using computer
- Viewing the JPEG image files and listening MP3 Audio files by using Portable DVD Players which are donated to Myanmar Buddhist Schools & Voluntary Schools

The students need to

- View the Lessons
- Copy the lessons
- Listen to both Myanmar & English Explanations of the lessons
- Do the exercises and submit the assignments



- Sit the examinations

The facilitators/ co-ordinators need to

- Download the lessons & unzip them
- Show the students which folders are to be studied on weekly basis by using computer or Portable DVD Player
- Supervise the students in their learning

### The Teacher who prepares the lessons

Sayar U Kyaw Naing Ed.D (STCTU),BE(EP)RIT,AGTI(EP)Pyi, MSEE(USA),M.Sc (Science Education)Curtin University-Western Australia, Post Grad Dip Sc Ed(Curtin), Grad Dip Ed (Adult Vocational Education)(TAFE-NSW),Cert IV TAE40110, MIEAust, RPEQ

Registered Teacher (Western Australian Teacher Registration Board)

Teacher of Electrical Engineering (TAFE-NSW)

## WRITTEN LESSONS+AUDIO FILES

### Year 11+12

### MATHEMATICS

[www.iqytechnicalcollege.com/Yr1112Maths1.zip](http://www.iqytechnicalcollege.com/Yr1112Maths1.zip)

### PHYSICS

[www.iqytechnicalcollege.com/Yr1112Physics.zip](http://www.iqytechnicalcollege.com/Yr1112Physics.zip)

### CHEMISTRY

[www.iqytechnicalcollege.com/Yr1112Chemistry.zip](http://www.iqytechnicalcollege.com/Yr1112Chemistry.zip)

### SCIENCE

[www.iqytechnicalcollege.com/Yr1112Science.zip](http://www.iqytechnicalcollege.com/Yr1112Science.zip)

## **DESIGN & TECHNOLOGY**

[www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip](http://www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip)

## **SOFTWARE DESIGN**

[www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip](http://www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip)

# VIDEOS

### **Year 11+12 WEEK 1**

#### **Mathematics**

Yr 11+12 Maths 1-Rationals, Polynomials, Equations **Maths (001) Yr11+12 to Maths (021) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip">http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip">http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip</a>

Video

<https://youtu.be/afPIKAOmLrA>

#### **Chemistry**

Yr 11+12 Chemistry 1-Carbon Chemistry **Chemistry (001) Y11+12 to Chemistry (042) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip">http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip">http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip</a>

## Design & Technology

Yr 11+12 Design & Technology 1-Basic Concepts **DesignTech (001) Y11+12 to Design Tech (029) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip">http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7ey1mbqjmjsg1/Yr_11_12_Design_Technology_1_DVD_zip">http://www.filefactory.com/file/7ey1mbqjmjsg1/Yr_11_12_Design_Technology_1_DVD_zip</a>

Video

<https://youtu.be/6cnLVR3BHeg>

## Physics

Yr 11+12 Physics 1-Gravity **Physics (001) Y11+12 to Physics (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip">http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip">http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip</a>

Video

<https://youtu.be/lxXmAfYWayc>

## Science

Yr 11+12 Science 1A-Physical and chemical properties of everyday substances **Science (001) Y11+12 to Science (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip">http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip">http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip</a>

## Software Design

Yr 11+12 Software Design 1-Rights and responsibilities of software developers **Software (001) Y11+12 to Software (027) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip">http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip">http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip</a>

Video

<https://youtu.be/mPBjzZnjHwU>

**Year 11+12 WEEK 2**

**Mathematics**

Yr 11+12 Maths 2-Circle Geometry **Maths (022) Yr11+12 to Maths (047) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3i9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip">http://www.filefactory.com/file/3i9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip">http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip</a>

Video

<https://youtu.be/KxFAPQQBEec>

**Chemistry**

Yr 11+12 Chemistry 2a-Industrial uses & production of Organic Compounds **Chemistry (043) Y11+12 to Chemistry (085) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip">http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip">http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip</a>

**Design & Technology**

Yr 11+12 Design & Technology 2-Design Process **DesignTech (030) Y11+12 to Design Tech (050) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip">http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip">http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip</a>

DVD Player

Video

<https://youtu.be/AWMHwZuza4A>

### **Physics**

Yr 11+12 Physics 2-Projectile Motion **Physics (016) Y11+12 to Physics (058) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip">http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip">http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip</a>

Video

<https://youtu.be/QicnwF-pd9E>

### **Science**

Yr 11+12 Science 1B- Chemical effect on body skin **Science (035) Y11+12 to Science (077) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip">http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip">http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip</a>

Video

[https://youtu.be/kR\\_9\\_RMpBhM](https://youtu.be/kR_9_RMpBhM)

### **Software Design**

Yr 11+12 Software Design 2A- Software Development

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip">http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip">http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip</a>

Video

<https://youtu.be/ETaTh-p7S88>

## Year 11+12 WEEK 3

### Mathematics

Yr 11+12 Maths 3A-Plotting Graphs **Maths (048) Yr11+12 to Maths (073) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip">http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip">http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip</a>

Video

[https://youtu.be/V7DdiD\\_XXNg](https://youtu.be/V7DdiD_XXNg)

### Chemistry

Yr 11+12 Chemistry 3A-Electro-Chemistry **Chemistry (0086) Y11+12 to Chemistry (110) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip">http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip">http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology 3-Design Professions **DesignTech (051) Y11+12 to Design Tech (0062) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip">http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip">http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip</a>

Video

<https://youtu.be/WtpkEztrFHA>

### Physics

Yr 11+12 Physics 3-Newton Law of Universal Gravitation **Physics (059) Y11+12 to Physics (078) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip">http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip">http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip</a>
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Video

<https://youtu.be/7naPc7nLlv8>

## Science

Yr 11+12 Science 2A-Bionics **Science (078) Y11+12 to Science (130) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip">http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip">http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip</a>

Video

<https://youtu.be/zhUD3cC14AY>

## Software Design

Yr 11+12 Software Design 3A-Defining the problem **Software (054) Y11+12 to Software (091) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip">http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip">http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip</a>

Video

<https://youtu.be/L0XemUHW8Fg>

## Year 11+12 WEEK 4

## Mathematics

Yr 11+12 Maths 4 Quadratic equations **Maths (074) Yr11+12 to Maths (123) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip">http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip">http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip</a>

Video

<https://youtu.be/QNzf5Qhcho8>

## **Chemistry**

Yr 11+12 Chemistry3B Electrical Cells **Chemistry (111) Y11+12 to Chemistry (145) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip">http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip">http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip</a>

Video

[https://youtu.be/\\_OhRYtxiTS0](https://youtu.be/_OhRYtxiTS0)

## **Design & Technology**

Yr 11+12 Design & Technology 4-Factors affecting design **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip">http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip">http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip</a>

Video

<https://youtu.be/icoOEn26FZY>

## **Physics**

Yr 11+12 Physics 4-Measurement **Physics (0079) Y11+12 to Physics (095) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip">http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip">http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip</a>

Video

<https://youtu.be/5ObMFCjdTXM>

## **Science**

Yr 11+12 Science 3B-Communication system waves **Science (131) Y11+12 to Science (157) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip">http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip">http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip</a>

Video

<https://youtu.be/YISoC6caucE>

### Software Design

Yr 11+12 Software Design 3B-Modelling **Software (092) Y11+12 to Software (128) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip">http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip">http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip</a>

Video

<https://youtu.be/GDj4FremeOc>

### Year 11+12 WEEK 5

### Mathematics

Yr 11+12 Maths 5-Trigo Compound angles **Maths (124) Yr11+12 to Maths (133) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip">http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip">http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip</a>

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### Chemistry

Yr 11+12 Chemistry 3C-Electro-chemical Cells **Chemistry (146) Y11+12 to Chemistry (175) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip">http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip">http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip</a>

Video

<https://youtu.be/KnllmfAk1a4>

### **Design & Technology**

Yr 11+12 Design & Technology 5–Trends in Design Production **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip">http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip">http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip</a>

Video

<https://youtu.be/zO2LI1yzvAM>

### **Physics**

Yr 11+12 Physics 5A-Motor **Physics (096) Y11+12 to Physics (122) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip">http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip">http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip</a>

Video

<https://youtu.be/nKWckDIJpvA>

### **Science**

Yr 11+12 Science 4A-Fibres **Science (158) Y11+12 to Science (196) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip">http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip">http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip</a>

Video

<https://youtu.be/dUPn1De2iJA>

### **Software Design**

Yr 11+12 Software Design 4A–Design Patterns **Software (129) Y11+12 to Software (156) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip">http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip">http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip</a>

Video

<https://youtu.be/QAWiURC1X1M>

## **Year 11+12 WEEK 6**

### **Mathematics**

Yr 11+12 Maths –6 - Half Compound Angles **Maths (134) Yr11+12 to Maths (151) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip">http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip">http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip</a>

Video

<https://youtu.be/sxJcFi9JrPo>

### **Chemistry**

Yr 11+12 Chemistry –4A- Nuclear Chemistry **Chemistry (176) Y11+12 to Chemistry (211) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip">http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip">http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip</a>

Video

<https://youtu.be/-pYr7fxYEDw>

### **Design & Technology**

Yr 11+12 Design & Technology –6 - Design Techniques **DesignTech (162) Y11+12 to Design Tech (169) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip">http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip">http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip</a>

DVD Player

Video

<https://youtu.be/W6YSsRSe8QE>

### **Physics**

Yr 11+12 Physics –5B--DC Machines **Physics (123) Y11+12 to Physics (163) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip">http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6mk0jia1mbv/Yr_11_12_Physics_5B_DVD_zip">http://www.filefactory.com/file/6mk0jia1mbv/Yr_11_12_Physics_5B_DVD_zip</a>

Video

<https://youtu.be/OYvfoxZYvc>

### **Science**

Yr 11+12 Science -4B—Plastics **Science (197) Y11+12 to Science (228) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip">http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip">http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip</a>

Video

<https://youtu.be/se-3r2FdnNA>

### **Software Design**

Yr 11+12 Software Design 4B—Program Testing **Software (157) Y11+12 to Software (191) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip">http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip">http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip</a>

Video

<https://youtu.be/oBSGhNtW1iA>

### **Year 11+12 WEEK 7**

## Mathematics

Yr 11+12 Maths 7--Trigo Problems **Maths (152) Yr11+12 to Maths (155) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip">http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip">http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip</a>

Video

<https://youtu.be/7UxTaL-DCKk>

## Chemistry

Yr 11+12 Chemistry -4B--Nuclear Chemistry **Chemistry (212) Y11+12 to Chemistry (244) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip">http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip">http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip</a>

Video

<https://youtu.be/f6OaItASWfQ>

## Design & Technology

Yr 11+12 Design & Technology -7--Historical Cultural Influences **DesignTech (170) Y11+12 to Design Tech (170) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip">http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip">http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip</a>

Video

<https://youtu.be/jwKCsOyyJ7M>

## Physics

Yr 11+12 Physics 6---Generator **Physics (164) Y11+12 to Physics (174) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip">http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip">http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip</a>
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Video

<https://youtu.be/p-4hyJPMPMA>

## Science

Yr 11+12 Science -5A--Consumers' Products, Additives, Micro-organisms **Science (229) Y11+12 to Science (251) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip">http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip">http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip</a>

Video

<https://youtu.be/dUTGrwp49uA>

## Software Design

Yr 11+12 Software Design 4C -Arrays **Software (192) Y11+12 to Software (232) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2smhczibe007/Yr_11_12_Software_Design_4C_PPT_zip">http://www.filefactory.com/file/2smhczibe007/Yr_11_12_Software_Design_4C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip">http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip</a>

Video

<https://youtu.be/kHqLfDleww0>

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## Year 11+12 WEEK 8

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## Chemistry

Yr 11+12 Chemistry 5A-Properties of Acidic Oxides **Chemistry (245) Y11+12 to Chemistry (287) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip">http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip">http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip</a>
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## **Design & Technology**

Yr 11+12 Design & Technology –8-Creative & Collaborative Approaches in Design **DesignTech (171) Y11+12 to Design Tech (186) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip">http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip">http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip</a>

Video

<https://youtu.be/8W5DBEQ4Obk>

## **Physics**

Yr 11+12 Physics 7-Transformer **Physics (175) Y11+12 to Physics (201) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip">http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip">http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip</a>

Video

<https://youtu.be/jLFkXvMrQQw>

## **Science**

Yr 11+12 Science 5B–Microbes+ Natural Preservatives **Science (252) Y11+12 to Science (290) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip">http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip">http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip</a>

Video

<https://youtu.be/15YTietVnWM>

## **Software Design**

Yr 11+12 Software Design 4D–String Processing **Software (233) Y11+12 to Software (282) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip">http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip">http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip</a>

Video

<https://youtu.be/zTfLtmMLLgQ>

### **Software Design 4E**

<https://youtu.be/3H8got5LotQ>

### **Year 11+12 WEEK 9**

### **Mathematics**

Yr 11+12 Maths –8-Trigo Equations **Maths (156) Yr11+12 to Maths (180) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip">http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip">http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip</a>

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### **Chemistry**

Yr 11+12 Chemistry 5B–Properties of Acidic Oxides **Chemistry (288) Y11+12 to Chemistry (302) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip">http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip">http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip</a>

Video

<https://youtu.be/dAwX6y1fYSE>

### **Chemistry 6**

<https://youtu.be/CcgvTmll8Xg>



## Chemistry 6A

[https://youtu.be/\\_xRKf4aTIR8](https://youtu.be/_xRKf4aTIR8)

## Chemistry 6B

<https://youtu.be/7iWtCGIb7q4>

## Design & Technology

Yr 11+12 Design & Technology 9 –Design Solutions/ Design Briefs **DesignTech (187) Y11+12 to Design Tech (221) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip">http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip">http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip</a>

Video

<https://youtu.be/XI9svBSy0TM>

## Physics

Yr 11+12 Physics -8–Magnetisms & Moving Charges **Physics (202) Y11+12 to Physics (234) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip">http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip">http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip</a>

Video

<https://youtu.be/OPb0nrH6AaQ>

## Science

Yr 11+12 Science 6B – Circulatory System **Science (291) Y11+12 to Science (329) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip">http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip">http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip</a>

Video

Science 6A

<https://youtu.be/iQKITWfvEXQ>

Software Design

Yr 11+12 Software Design 5A-Interface Design **Software (283) Y11+12 to Software (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip">http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip">http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip</a>

Video

<https://youtu.be/xLxGd21ir8Q>

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Year 11+12 WEEK 10

Mathematics

Yr 11+12 Maths -9-Parabola **Maths (181) Yr11+12 to Maths (198) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip">http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip">http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip</a>

Video

<https://youtu.be/BJh6SRDxzVo>

Chemistry

Yr 11+12 Chemistry 7A -Application of PH **Chemistry (303) Y11+12 to Chemistry (348) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip">http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip">http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip</a>

Video

<https://youtu.be/VxBslUBsjTA>

### **Design & Technology**

Yr 11+12 Design & Technology 10A–Research Data Presentation **DesignTech (222) Y11+12 to Design Tech (286) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip">http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip">http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip</a>

Video

<https://youtu.be/ffQDLDFs54>

### **Design & Technology 10B**

<https://youtu.be/97Y7RNtkVjY>

### **Science**

Yr 11+12 Science 6C–Reproduction of Bacteria **Science (330) Y11+12 to Science (357) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip">http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip">http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 5B –Random Number Generator **Software (316) Y11+12 to Software (378) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip">http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip">http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip</a>

Video

<https://youtu.be/kg7cnxAb4D0>

### **Year 11+12 WEEK 11**

#### **Chemistry**

Yr 11+12 Chemistry 7B–Volumetric Analysis Titration **Chemistry (341) Y11+12 to Chemistry (373) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip">http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip">http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip</a>

Video

<https://youtu.be/5taFWZTGZ3I>

#### **Design & Technology**

Yr 11+12 Design & Technology 11-Marketing **DesignTech (287) Y11+12 to Design Tech (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip">http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip">http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip</a>

Video

<https://youtu.be/rpfdjbjlo90>

#### **Science**

Yr 11+12 Science 7A –Disasters **Science (358) Y11+12 to Science (418) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip">http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/69lgpi78j9xp/Yr_11_12_Science_7A_DVD_zip">http://www.filefactory.com/file/69lgpi78j9xp/Yr_11_12_Science_7A_DVD_zip</a>

#### **Software Design**

Yr 11+12 Software Design 5C–Program Counter+DLL +Compilation **Software (344) Y11+12 to Software (344) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip">http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip">http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip</a>

Video

<https://youtu.be/72CfwGKaY1s>

**Year 11+12 WEEK 12**

### **Mathematics**

Yr 11+12 Maths-10 –Parametric Equations+ Permutation+ Combinations **Maths (199) Yr11+12 to Maths (224) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip">http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip">http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip</a>

Video

<https://youtu.be/Mzfxj6lydeQ>

**Maths 11**

[https://youtu.be/4KFClr\\_MVyc](https://youtu.be/4KFClr_MVyc)

### **Chemistry**

Yr 11+12 Chemistry-8–Titration+ Esters

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip</a>

Video

<https://youtu.be/79ZBL1h8CBA>

### **Design & Technology**

Yr 11+12 Design & Technology-12 –Communications **DesignTech (317) Y11+12 to Design Tech (353) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip">http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip">http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip</a>

Video

<https://youtu.be/drEiGJX0dsc>

## Science

Yr 11+12 Science-7B –Seismic Waves+ Bush Fires **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip">http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip">http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip</a>

## Software Design

Yr 11+12 Software Design-5D –Optimiser **Software (379) Y11+12 to Software (410) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip">http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip">http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip</a>

Video

<https://youtu.be/lldV4rbjv30>

## Year 11+12 WEEK 13

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## Chemistry

Yr 11+12 Chemistry-8 -Titration+ Esters **Chemistry (374) Y11+12 to Chemistry (407) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip</a>

DVD Player	
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### Design & Technology

Yr 11+12 Design & Technology-13 –Computer Based Technologies **DesignTech (354) Y11+12 to Design Tech (392) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip">http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip">http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip</a>

Video

<https://youtu.be/lbZ3cwYPL9g>

<https://youtu.be/4z-CmJrepHk>

### Science

Yr 11+12 Science-8A –Atmosphere + Space Craft **Science (419) Y11+12 to Science (442) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip">http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip">http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip</a>

### Software Design

Yr 11+12 Software Design-5E –Documentations of Software Solutions **Software (411) Y11+12 to Software (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip">http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip">http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip</a>

Video

<https://youtu.be/VW4fk5sV4p4>

**Year 11+12 WEEK 14**

### Mathematics

Yr 11+12 Maths-12 –Factor Theorem + Remainder Theorem **Maths (225) Yr11+12 to Maths (240) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip">http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip">http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip</a>

Video

<https://youtu.be/20u2Jx6xnbw>

## **Chemistry**

Yr 11+12 Chemistry-9A –The Work of Chemist **Chemistry (408) Y11+12 to Chemistry (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip">http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip</a>

Video

<https://youtu.be/eepO1GLhtns>

## **Design & Technology**

Yr 11+12 Design & Technology 14B Management **DesignTech (393) Y11+12 to Design Tech (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

## **Design & Technology 14A**

<https://youtu.be/tK545SK9Tao>

## **Science**

Yr 11+12 Science -8B–Space Technology **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip">http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip">http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip</a>
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### Software Design

Yr 11+12 Software Design-6A –Testing the software solution **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip">http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip">http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip</a>

Video

<https://youtu.be/JwyNceTj5JI>

### Year 11+12 WEEK 15

### Mathematics

Yr 11+12 Maths-13 –Graphing Polynomials + Integration **Maths (241) Yr11+12 to Maths (258) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip">http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip">http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip</a>

Video

<https://youtu.be/hU00Wdtm8H0>

### Chemistry

Yr 11+12 Chemistry 9A –The work of chemist **Chemistry (434) Y11+12 to Chemistry (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology -14A-Managers+ Management Styles **DesignTech (434) Y11+12 to Design Tech (439) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip">http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

**Design & Technology 14B**

<https://youtu.be/j7DxOusOtfM>

**Science**

Yr 11+12 Science-8C –Optical Telescope **Science (474) Y11+12 to Science (516) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip">http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip">http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip</a>

**Software Design**

Yr 11+12 Software Design-6B –Driver Module **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip">http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip">http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip</a>

Video

<https://youtu.be/vu3bOR9KtrU>

**Year 11+12 WEEK 16**

**Mathematics**

Yr 11+12 Maths 14 Integration Approximation **Maths (259) Yr11+12 to Maths (268) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip">http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip">http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip</a>
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Video

<https://youtu.be/BxoPyYDoSHk>

### **Chemistry**

Yr 11+12 Chemistry 9B –Atomic Absorption+ Spectrograph **Chemistry (445) Y11+12 to Chemistry (458) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip">http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

Video

<https://youtu.be/z9efzQuNePg>

### **Design & Technology**

Yr 11+12 Design & Technology -15–Organizational Structure **DesignTech (440) Y11+12 to Design Tech (463) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip">http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip">http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip</a>

Video

<https://youtu.be/xpbDhFJrLVo>

### **Science**

Yr 11+12 Science-6A –Central peripheral nervous system

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip">http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip">http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip</a>

Video

### **Science 6B**

<https://youtu.be/WzxCKpDquBI>

Science 6C

<https://youtu.be/raUa04nYcho>

Science 7A

<https://youtu.be/vhBQ7GliPSw>

Science 7B

[https://youtu.be/KjO\\_SLcRIsQ](https://youtu.be/KjO_SLcRIsQ)

Science 8A

<https://youtu.be/Guv-3nThBiM>

Science 8B

[https://youtu.be/8oMPx36Q\\_Pc](https://youtu.be/8oMPx36Q_Pc)

Software Design

Yr 11+12 Software Design-7 –Code Modification **Software (506) Y11+12 to Software (530) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip">http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip">http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip</a>

Video

<https://youtu.be/dKbdvz-vN8s>

**Year 11+12 WEEK 17**

**Mathematics**

Yr 11+12 Maths -15–Graphing Inverse Function **Maths (269) Yr11+12 to Maths (290) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip">http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip">http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip</a>

Video

<https://youtu.be/RXmABGXM3To>

### **Chemistry**

Yr 11+12 Chemistry -10A-Isomers+ Ozone + Water Analysis **Chemistry (459) Y11+12 to Chemistry (506) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/252l7enlc23j/Yr_11_12_Chemistry_10A_PPT_zip">http://www.filefactory.com/file/252l7enlc23j/Yr_11_12_Chemistry_10A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17ocelpd5eol/Yr_11_12_Chemistry_10A_DVD_zip">http://www.filefactory.com/file/17ocelpd5eol/Yr_11_12_Chemistry_10A_DVD_zip</a>

Video

<https://youtu.be/9lCeJpMExqU>

### **Design & Technology**

Yr 11+12 Design & Technology-16 –Safety Issues **DesignTech (466) Y11+12 to Design Tech (488) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5vhtrowszqhb3/Yr_11_12_Design_amp_Technology_16_PPT_zip">http://www.filefactory.com/file/5vhtrowszqhb3/Yr_11_12_Design_amp_Technology_16_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/14skzslec8a5/Yr_11_12_Design_amp_Technology_16_DVD_zip">http://www.filefactory.com/file/14skzslec8a5/Yr_11_12_Design_amp_Technology_16_DVD_zip</a>

Video

<https://youtu.be/AuYSNtmo-IM>

### **Year 11+12 WEEK 18**

### **Mathematics**

Yr 11+12 Maths-16 –Trigo Evaluation **Maths (291) Yr11+12 to Maths (307) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip">http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip">http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip</a>

Video

<https://youtu.be/LGLHqnoVeS8>

### **Chemistry**

Yr 11+12 Chemistry-10B –Heavy Metal Pollution of Water **Chemistry (507) Y11+12 to Chemistry (541) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3ybo7fsparon/Yr_11_12_Chemistry_10B_PPT_zip">http://www.filefactory.com/file/3ybo7fsparon/Yr_11_12_Chemistry_10B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2dbgudauuujh/Yr_11_12_Chemistry_10B_DVD_zip">http://www.filefactory.com/file/2dbgudauuujh/Yr_11_12_Chemistry_10B_DVD_zip</a>

Video

<https://youtu.be/lhJEjJpz11s>

### **Design & Technology**

Yr 11+12 Design & Technology 17- Evaluation **DesignTech (489) Y11+12 to Design Tech (517) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/yfisrp2mvp9/Yr_11_12_Design_amp_Technology_17_PPT_zip">http://www.filefactory.com/file/yfisrp2mvp9/Yr_11_12_Design_amp_Technology_17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wttf2utmwuf/Yr_11_12_Design_amp_Technology_17_DVD_zip">http://www.filefactory.com/file/6wttf2utmwuf/Yr_11_12_Design_amp_Technology_17_DVD_zip</a>

Video

<https://youtu.be/98hxD-tn-Xs>

### **Software Design**

Yr 11+12 Software Design -8A–Defining problem and solution **Software (531) Y11+12 to Software (566) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ajj1hxfw091/Yr_11_12_Software_Design_8_A_PPT_zip">http://www.filefactory.com/file/ajj1hxfw091/Yr_11_12_Software_Design_8_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rpqkmlnk6h3/Yr_11_12_Software_Design_8_A_DVD_zip">http://www.filefactory.com/file/1rpqkmlnk6h3/Yr_11_12_Software_Design_8_A_DVD_zip</a>

Video

[https://youtu.be/tvv3Qp\\_2HQ8](https://youtu.be/tvv3Qp_2HQ8)

### **Year 11+12 WEEK 19**

### **Mathematics**

Yr 11+12 Maths-17 –Integration + Application of Calculus **Maths (308) Yr11+12 to Maths (328) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip">http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip">http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip</a>

Video

<https://youtu.be/hD6b2SBJ0Fs>

## **Chemistry**

Yr 11+12 Chemistry-6A –Natural & manufactured acid

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip">http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip">http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip</a>

Video

<https://youtu.be/Fz6PeH8yokI>

## **Design & Technology**

Yr 11+12 Design & Technology-14B –Managers and management style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

<https://youtu.be/9qgLkRtvWTY>

## **Software Design**

Yr 11+12 Software Design -8–Selection of software environment / Document design **Software (567) Y11+12 to Software (587) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip">http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip">http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip</a>

DVD Player

Video

: <https://youtu.be/CrFG2YFFnuQ>

### **Year 11+12 WEEK 20**

#### **Mathematics**

Yr 11+12 Maths-18 –Application of Calculus **Maths (329) Yr11+12 to Maths (330) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip">http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip">http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip</a>

Video

<https://youtu.be/I5M3dwR-c-E>

#### **Design & Technology**

Yr 11+12 Design & Technology-18A –Innovation **DesignTech (518) Y11+12 to Design Tech (524) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip">http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip">http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip</a>

Video

<https://youtu.be/PtzEaqUQoEQ>

### **Year 11+12 WEEK 21**

#### **Mathematics**

Yr 11+12 Maths-19 –Simple Harmonic Oscillation **Maths (331) Yr11+12 to Maths (344) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip">http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip">http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip</a>

Video



[https://youtu.be/\\_zb8d71E-QU](https://youtu.be/_zb8d71E-QU)

<https://youtu.be/OQCjs7CsMy8>

### **Design & Technology**

Yr 11+12 Design & Technology 18B Elements of innovation **DesignTech (525) Y11+12 to Design Tech (568) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip">http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip">http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip</a>

Video

<https://youtu.be/mqluRwTe7yA>

### **Software Design**

Yr 11+12 Software Design-9A –Generation of programming languages **Software (588) Y11+12 to Software (593) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip">http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip">http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip</a>

Video

<https://youtu.be/li0qJAO-CfA>

### **Year 11+12 WEEK 22**

### **Mathematics**

Yr 11+12 Maths 20 –Projectile Motion **Maths (344) Yr11+12 to Maths (360) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip">http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip">http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip</a>

Video

<https://youtu.be/ZoFwF8xlxHA>

### **Design & Technology**

Yr 11+12 Design & Technology -14B-Manager + Management Style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip">http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 9B History of programming languages **Software (594) Y11+12 to Software (602) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip">http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip">http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip</a>

Video

<https://youtu.be/BMmEjoHh3fM>

### **Year 11+12 WEEK 23**

### **Mathematics**

Yr 11+12 Maths 21 –Binomial Theorem **Maths (361) Yr11+12 to Maths (370) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip">http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip">http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip</a>

Video

<https://youtu.be/BTGRHmEG5d0>

### **Design & Technology**

Yr 11+12 Design & Technology-19 –Emerging Technologies **DesignTech (569) Y11+12 to Design Tech (591) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip">http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip">http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip</a>

Video

<https://youtu.be/9k3wlaipqSU>

### Software Design

Yr 11+12 Software Design -10A-Representation of Computer Data **Software (603) Y11+12 to Software (626) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip">http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/60wacfsz8mcv/n/Yr_11+12_Software_Design_10A_DVD.zip">http://www.filefactory.com/file/60wacfsz8mcv/n/Yr_11+12_Software_Design_10A_DVD.zip</a>

### Year 11+12 WEEK 24

### Mathematics

Yr 11+12 Maths-22 -Probability+ Binomial Distribution **Maths (371) Yr11+12 to Maths (387) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4y86h0clohzx/Yr_11_12_Maths-22_PPT_zip">http://www.filefactory.com/file/4y86h0clohzx/Yr_11_12_Maths-22_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip">http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip</a>

Video

<https://youtu.be/Lw75Cy0fzHc>

### Design & Technology

Yr 11+12 Design & Technology 20A Impact of design activities on individual society & environment **DesignTech (600) Y11+12 to Design Tech (610) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip">http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip">http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip</a>

Video

<https://youtu.be/RbxiFlcA3Co>

### Software Design

Yr 11+12 Software Design 10B –Logic Gates **Software (627) Y11+12 to Software (643) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip">http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip">http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip</a>

### Year 11+12 WEEK 25

### Mathematics

Yr 11+12 Maths 23–Changing Recurring Decimals in to Fractions **Maths (388) Yr11+12 to Maths (393) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip">http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip">http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip</a>

Video

<https://youtu.be/F4jP4NVEiW0>

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Yr 11+12 Maths 24 –Simplifying Algebraic Expression **Maths (394) Yr11+12 to Maths (415) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip">http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip">http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip</a>

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<https://youtu.be/fvqNKi-dSyU>

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## Design & Technology

Yr 11+12 Design & Technology 20B –Water Pollution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip">http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip">http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip</a>

## Year 11+12 WEEK 26

### Mathematics

Yr 11+12 Maths 25 Solving simultaneous equations **Maths (416) Yr11+12 to Maths (434) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip">http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip">http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip</a>

Video

<https://youtu.be/bLRBZcM-zsk>

## Design & Technology

Yr 11+12 Design & Technology 21A–Innovation Case Studies **DesignTech (612) Y11+12 to Design Tech (630) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip">http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip">http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip</a>

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## Year 11+12 WEEK 27

### Mathematics

Yr 11+12 Maths 26 –Percentage , discount **Maths (435) Yr11+12 to Maths (438) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip">http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip">http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip</a>
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Video

<https://youtu.be/9DzrWJHKLBO>

### **Design & Technology**

Yr 11+12 Design & Technology 21B Innovation Case Studies- Designer Aspect

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip">http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip">http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip</a>

### **Year 11+12 WEEK 28**

### **Mathematics**

Yr 11+12 Maths 27 –Geometry problems solving **Maths (439) Yr11+12 to Maths (461) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip">http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip">http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip</a>

Video

<https://youtu.be/jLHR9IP5sTQ>

### **Design & Technology**

Yr 11+12 Design & Technology 22A–Major Design Project **DesignTech (611) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip">http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip</a>
Link for JPEG+MP3 to	<a href="http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip">http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip</a>

view with portable DVD Player	
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### **Year 11+12 WEEK 29**

#### **Mathematics**

Yr 11+12 Maths 28- Trigo function values **Maths (462) Yr11+12 to Maths (485) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip">http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip">http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip</a>

Video

<https://youtu.be/5iMZP3dAHs8>

#### **Design & Technology**

Yr 11+12 Design & Technology 22B-Major Design Project Development/ Evaluation **DesignTech (631) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip">http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip">http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip</a>

### **Year 11+12 WEEK 30**

#### **Mathematics**

Yr 11+12 Maths 29-Trigo ratio values **Maths (486) Yr11+12 to Maths (498) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip">http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip">http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip</a>

Video

<https://youtu.be/ABEJoLGBntk>

### **Mathematics**

Yr 11+12 Maths 30–Trigo problems, angle of elevation **Maths (499) Yr11+12 to Maths (509) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip">http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip">http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip</a>

Video

<https://youtu.be/UU2OO8iW2nk>

### **Mathematics**

Yr 11+12 Maths31 – XY Line gradient **Maths (510) Yr11+12 to Maths (527) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip">http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip">http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip</a>

Video

<https://youtu.be/lwoTQF7lhSI>

### **Mathematics**

Yr 11+12 Maths 32 - Mid points between points **Maths (528) Yr11+12 to Maths (551) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip">http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip">http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip</a>

Video

[https://youtu.be/FTr\\_FM61jwE](https://youtu.be/FTr_FM61jwE)

### **Year 11+12 WEEK 31**



## **Mathematics**

Yr 11+12 Maths 33 Angle of inclination / Graphs of functions **Maths (552) Yr11+12 to Maths (571) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip">http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip">http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip</a>

Video

<https://youtu.be/uZxfV88QXlg>

## **Mathematics**

Yr 11+12 Maths 34 Locus & Parabola **Maths (572) Yr11+12 to Maths (591) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip">http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip">http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip</a>

Video

<https://youtu.be/nggwEsSMNIM>

## **Mathematics**

Yr 11+12 Maths 35 Series **Maths (592) Yr11+12 to Maths (609) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip">http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip">http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip</a>

Video

[https://youtu.be/sj6NW\\_p-N-w](https://youtu.be/sj6NW_p-N-w)

## **Mathematics**

Yr 11+12 Maths 36 Tangent & Derivatives of Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip">http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip">http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip</a>
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## **Year 11+12 WEEK 32**

### **Mathematics**

Yr 11+12 Maths 37 Application of Geometrical Properties

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip">http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip">http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 38 –Co-ordinate Methods in Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip">http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip">http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 39 Plotting graph/ Maxima & Minima

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip">http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip">http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 40 Definite Integral

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip">http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip">http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip</a>

### **Year 11+12 WEEK 33**

#### **Mathematics**

Yr 11+12 Maths 41 Exponential & Logarithmic Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip">http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip">http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 42 Trigonometric Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip">http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip">http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 43 Application of calculus to physical world

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip">http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip">http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip</a>

## Mathematics

Yr 11+12 Maths 44 Probability

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip">http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip">http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip</a>

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## Mathematics

Yr 11+12 Maths 45 Application of series

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip">http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip">http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip</a>

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## **EXERCISES**

[www.highlightcomputer.com/Y9101112Exercises.pdf](http://www.highlightcomputer.com/Y9101112Exercises.pdf)

# MYANMAR BUDDHIST SCHOOLS & VOLUNTARY SCHOOLS STUDY SUPPORT WEBSITE

<http://www.nldschoo.com>

This website contains English+ Myanmar Explanations of the tutoring lessons based on New South Wales & Western Australian school curriculum subjects.

The aim to develop this site is to provide the tutoring support for the students in Myanmar Buddhist Schools and Voluntary Schools including NLD Education Network Schools to acquire the international standard school education.

## Tutoring Lessons in Myanmar & English

## Reference Text Books

By studying the contents of this site, the students will acquire the following benefits

- Reading+ Listening skills in English Language
- Acquire Australian School Education
- Use of IT Skills in E- Learning
- Self learning practice

The lessons can be learnt by two ways

- Viewing the power-point lessons by using computer
- Viewing the JPEG image files and listening MP3 Audio files by using Portable DVD Players which are donated to Myanmar Buddhist Schools & Voluntary Schools

The students need to

- View the Lessons
- Copy the lessons
- Listen to both Myanmar & English Explanations of the lessons
- Do the exercises and submit the assignments
- Sit the examinations

The facilitators/ co-ordinators need to

- Download the lessons & unzip them
- Show the students which folders are to be studied on weekly basis by using computer or Portable DVD Player
- Supervise the students in their learning

# MYANMAR BUDDHIST SCHOOLS & VOLUNTARY SCHOOLS STUDY SUPPORT WEBSITE

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# Diploma in Teaching Practice

jointly taught by (St Clements Technological University/  
Singapore Institute of Engineering Technologists/ IQY Technical College)

## ENROLMENT LINK

**Click the following link & fill the form.**

<http://www.emailmeform.com/builder/form/tq48xQ6acb>

## REFERENCE SITE

[www.highlightcomputer.com/bedschoolvet.htm](http://www.highlightcomputer.com/bedschoolvet.htm)

## List of Subjects for Teaching Practice

ED101P Teaching Support

ED102P Application of Information Technology in School Education

ED103P Classroom Management

ED104P Teaching Portfolio

ED105P Inclusive Teaching

ED106P Subject Area Knowledge

ED107 Theory of Education, Educational Technology & Teaching Practice

ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

ED107B-Education Technology (ED102) (Slide 61 to 100)  
ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)  
ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)  
ED107E-Teaching & Learning (Slide 141 to 160+ Slide 200 to 240 )  
ED107F-Inclusive Teaching (ED105 Inclusive Teaching Slide 161 to 200)  
ED107G-Evaluation & Assessment (Slide 301 to 320)

ED108 Curriculum Study , Teaching & Learning  
Interpreting Curriculums

## Study Sequence for Graduates

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

ED101P Teaching Support

ED102P Application of Information Technology in School Education

ED103P Classroom Management

ED104P Teaching Portfolio

ED105P Inclusive Teaching

## Study Sequence for Experienced Teachers

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

The following subjects can be exempted by presenting the reference letter from the school.

ED101 Teaching Support

ED103 Classroom Management

ED105 Inclusive Teaching

The following subject needs to be studied

ED102 Application of Information Technology in School Education

Teaching portfolio needs to be presented for the following subject

ED104 Teaching Portfolio

## REFERENCE EDUCATION THEORIES

ED 101 Theory of Education

ED 102 Education Technology

ED 103 Teaching Practice

ED 104 Lesson Planning

ED 105 Principle of Learning

ED 106 Interpreting Curriculums

## VIDEOS

IQY Teacher Training 1

<https://youtu.be/CHqmQ1lfwa4>

IQY Teacher Training 2

<https://youtu.be/i-VpgngRumw>

IQY Teacher Training 3

<https://youtu.be/eYujIkvdPYw>

IQY Teacher Training 4

<https://youtu.be/n9y49b5qO8g>

## TEACHER TRAINING- IQY-AUDIO Download Links

**VN860195.zip (96.74MB)**

<http://www.filefactory.com/file/6s4a0e57kz25/n/VN860195.zip>

**VN860197.zip (98.04MB)**

<http://www.filefactory.com/file/19yvqu2vqrdl/n/VN860197.zip>

**VN860196.zip (39.01MB)**

<http://www.filefactory.com/file/5ukezf8qmmb3/n/VN860196.zip>

**VN860136 (147MB)**

<http://www.filefactory.com/file/3wbq5wgon6zn/VN860136.zip>

## STUDY GUIDES & LESSONS

## ED101 to ED106

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

## ED107 Lessons

ED107 Exercises

[www.highlightcomputer.com/ED107Exercises.pdf](http://www.highlightcomputer.com/ED107Exercises.pdf)

ED107 Part 1 (Slide 1 to 20) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1071.pdf](http://www.highlightcomputer.com/ED1071.pdf)

ED107 Part 2 (Slide 21 to 40) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1072.pdf](http://www.highlightcomputer.com/ED1072.pdf)

ED107 Part 3 (Slide 41 to 60) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1073.pdf](http://www.highlightcomputer.com/ED1073.pdf)

ED107 Part 4 (Slide 61 to 80) ED107B-Education Technology (ED102) (Slide 61 to 100)

[www.highlightcomputer.com/ED1074.pdf](http://www.highlightcomputer.com/ED1074.pdf)

ED107 Part 5 (Slide 81 to 120) ED107B-Education Technology (ED102) (Slide 61 to 100)+ ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1075.pdf](http://www.highlightcomputer.com/ED1075.pdf)

ED107 Part 6 (Slide 121 to 140) ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1076.pdf](http://www.highlightcomputer.com/ED1076.pdf)

ED107 Part 7 (Slide 141 to 160) ED107E-Teaching & Learning (Slide 141 to 160)

[www.highlightcomputer.com/ED1077.pdf](http://www.highlightcomputer.com/ED1077.pdf)

ED107 Part 8 (Slide 161 to 180) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1078.pdf](http://www.highlightcomputer.com/ED1078.pdf)

ED107 Part 9 (Slide 181 to 200) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1079.pdf](http://www.highlightcomputer.com/ED1079.pdf)

ED107 Part 10 (Slide 201 to 220) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10710.pdf](http://www.highlightcomputer.com/ED10710.pdf)

ED107 Part 11 (Slide 221 to 240) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10711.pdf](http://www.highlightcomputer.com/ED10711.pdf)

ED107 Part 12 (Slide 241 to 260) ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10712.pdf](http://www.highlightcomputer.com/ED10712.pdf)

ED107 Part 13 (Slide 261 to 280) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10713.pdf](http://www.highlightcomputer.com/ED10713.pdf)

ED107 Part 14 (Slide 261 to 300) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10714.pdf](http://www.highlightcomputer.com/ED10714.pdf)

ED107 Part 15 (Slide 301 to 320)- ED107G-Evaluation & Assessment (Slide 301 to 320)

[www.highlightcomputer.com/ED10715.pdf](http://www.highlightcomputer.com/ED10715.pdf)

## ED108 Lessons

ED108 Exercises

[www.highlightcomputer.com/ED108Exercises.pdf](http://www.highlightcomputer.com/ED108Exercises.pdf)

ED108 Part 1 (Slide 1 to 20)

[www.highlightcomputer.com/ED1081.pdf](http://www.highlightcomputer.com/ED1081.pdf)

ED108 Part 2 (Slide 21 to 40)

[www.highlightcomputer.com/ED1082.pdf](http://www.highlightcomputer.com/ED1082.pdf)

ED108 Part 3 (Slide 41 to 60)

[www.highlightcomputer.com/ED1083.pdf](http://www.highlightcomputer.com/ED1083.pdf)

ED108 Part 4 (Slide 61 to 80)

[www.highlightcomputer.com/ED1084.pdf](http://www.highlightcomputer.com/ED1084.pdf)

ED108 Part 5 (Slide 81 to 100)

[www.highlightcomputer.com/ED1085.pdf](http://www.highlightcomputer.com/ED1085.pdf)

ED108 Part 6 (Slide 101 to 120)

[www.highlightcomputer.com/ED1086.pdf](http://www.highlightcomputer.com/ED1086.pdf)

ED108 Part 7 (Slide 121 to 140)

[www.highlightcomputer.com/ED1087.pdf](http://www.highlightcomputer.com/ED1087.pdf)

ED108 Part 8 (Slide 141 to 160)

[www.highlightcomputer.com/ED1088.pdf](http://www.highlightcomputer.com/ED1088.pdf)

**OPTIONAL**

**( Certificate in Vocational Education & Training-Engineering Technology Teaching)**



Online training & assignment

<http://www.highlightcomputer.com/gtc.htm>

## ADDITIONAL REFERENCES FOR ED107 LESSONS

ED 101 Theory of Education

[www.highlightcomputer.com/ED101.ppt](http://www.highlightcomputer.com/ED101.ppt)

ED 102 Education Technology

[www.highlightcomputer.com/ED102.ppt](http://www.highlightcomputer.com/ED102.ppt)

Integration of Learning Technology in Teaching & Learning Part 1

[http://youtu.be/bV\\_CJdY7fs0](http://youtu.be/bV_CJdY7fs0)

Technology in Classroom

<http://youtu.be/rzLQq6D6-OU>

ED 103 Teaching Practice

[www.highlightcomputer.com/ED103Part1.ppt](http://www.highlightcomputer.com/ED103Part1.ppt)

[www.highlightcomputer.com/ED103Part2.ppt](http://www.highlightcomputer.com/ED103Part2.ppt)

ED 104 Lesson Planning

[www.highlightcomputer.com/ED104.ppt](http://www.highlightcomputer.com/ED104.ppt)

ED 105 Principle of Learning

[www.highlightcomputer.com/ED105.ppt](http://www.highlightcomputer.com/ED105.ppt)

ED 106 Interpreting Curriculums

[www.highlightcomputer.com/ED106.ppt](http://www.highlightcomputer.com/ED106.ppt)

## ED101 to ED106 ASSIGNMENTS

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

## [Diploma Programs \(IQY Technical College\)](#)

[Electrical Engineering Course Outline](#)

[Management Course Outline](#)

[Information Technology Course Outline](#)

[Certificate in Information Technology Course Outline](#)

[Diploma in Information Technology Course Outline](#)

[Advanced Diploma in Information Technology Course Outline](#)

[Mechanical Engineering Course Outline](#)

[Civil Engineering Course Outline](#)

[Automotive Engineering Course Outline](#)

[Marine Engineering Course Outline](#)

## [Professional Diploma + Bachelor of Engineering \(Electrical, Civil, Mechanical Combined with Renewable Energy\) Programs](#)

[Professional Diploma+ Bachelor Degree in Electrical Engineering](#)

[Professional Diploma+ Bachelor Degree in Civil Engineering](#)

[Professional Diploma+ Bachelor Degree in Mechanical Engineering](#)

## [Bachelor Degree Programs \(St Clements University Higher Education School& St Clements Technological University of British West Indies\)](#)

[Bachelor of Engineering \(Electrical Engineering\) Course Outline](#)

[Bachelor of Applied Science \(Computer Science & Computer Technology\)](#)

[Bachelor of Engineering \(Mechanical Engineering-Mechatronics\) Course Outline](#)

[Bachelor of Engineering \(Civil Engineering-Building Services\) Course Outline](#)

[Graduate Diploma of Civil Engineering + Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline](#)

[Bachelor of Engineering \(Civil\) Course outline](#)

[Bachelor of Engineering \(Mechanical\) Course outline](#)

[Graduate Diploma of Mechanical Engineering + Bachelor of Applied Engineering \(Final Year Mechanical Design\) Course Outline](#)

[Bachelor of Business /Bachelor of Applied Management Course Outline](#)

[Graduate Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline](#)

[Certificate in Teaching Support+ Diploma in Teaching Practice+ Bachelor of Teaching+ Bachelor of Education \(School & Vocational\)](#)

[Scholarship Application Form for Volunteer Teachers](#)

[\*\*Myanmar Engineers Board Professional Engineer \(PE\) \(Electrical-Building Services\) Registration Support Program\*\*](#)

[Graduate Diploma of Engineering Practice \(Mechanical\) Course Outline](#)

[Graduate Diploma of Engineering Practice \(Civil\) Course Outline](#)

[Graduate Diploma of Engineering \(Electrical+ Electronics\) Course Outline](#)

[AUSTRALIAN ELECTRICIAN TRAINING](#)

[\*\*Master Degree Programs \(St Clements Technological University of British West Indies\)\*\*](#)

[Master of Science \(Information Technology\)/Master of Information Technology](#)

[Master of Management](#)

[Master of Science \(Engineering\) / Master of Engineering](#)

[Master of Science \(Renewable Energy Engineering\)](#)



## Singapore Institute of Engineering Technologists Recognized Courses

- [Advertisement](#)
  - [Pamphlet](#)
  - [Renewable Energy Engineering Joint Programs of Singapore Institute of Engineering Technologists & IQY Technical College Information leaflet](#)
  - [Enrolment Form](#)
- Myanmar Font (A Pagan) is Required to read Myanmar words in word file
- Download the font [HERE](#)
- [Membership Application Form of Singapore Institute of Engineering Technologists](#)
  - [Membership Grades](#)
  - **Information Leaflets**  
[Page 1](#)   [Page 2](#)
  - [Singapore Institute of Engineering Technologists Lifelong Learning Centre](#)
  - [IQY Technical College as authorised Training Centre of Singapore Institute of Engineering Technologists](#)

- [ASEAN Engineering Technologist Register \(ASEAN Federation of Engineering Organizations \) Information](#)
- [Portable DVD Player E Learning Instructions](#)

### **Career Talks of Singapore Institute of Engineering Technologists**

- [Career Options & Education Opportunities in Engineering by Dr Sam Man Keong](#)
- [Singapore institute of Engineering Technologists \(SIET\) Professional Membership & \(Member of Society of Professional Engineers-UK \(MSPE\), Professional Engineer \(Peng\) \(UK\) by Mr TRC Raja, Mr WongYat Keong & Dr Sam Man Keong](#)

## (Part 5)

### Pre-vocational Program for Engineering, Information Technology & Business Management

- **Pre-vocational Program for the students who have not passed Year 10 in Myanmar to attend the Degree Programs of St Clements Technological University**

### Pre-vocational Program & Vocational & Higher education Studies Course Structure

[http://www.filefactory.com/file/2katcazit0ct/n/St\\_Clements\\_Technological\\_University\\_Scholarship\\_E\\_pdf](http://www.filefactory.com/file/2katcazit0ct/n/St_Clements_Technological_University_Scholarship_E_pdf)

#### **(1) Links for Powerpoints & Computer**

The folders in the following links contain the Power-points files that can be played by the computer.

[http://www.filefactory.com/file/30p22rk6u1zz/n/Prevocational\\_Course\\_for\\_Engineering\\_IT\\_htm](http://www.filefactory.com/file/30p22rk6u1zz/n/Prevocational_Course_for_Engineering_IT_htm)

#### **(2) Links for DVD Players**

<http://www.highlightcomputergroup4.zoomshare.com/files/school.htm>

The folders in the following links contain the JPG & MP3 files that can be played by the following Portable DVD Player.

#### **Portable DVD Player**

[http://www.filefactory.com/file/fzv47mhtg73/n/Portable\\_DVD\\_Player\\_pdf](http://www.filefactory.com/file/fzv47mhtg73/n/Portable_DVD_Player_pdf)

#### **CGVE 401 Year 11+12 Maths V1**

[http://www.filefactory.com/file/4y9iouqnve49/n/CGVE\\_401\\_Year\\_11\\_12\\_Maths\\_V1\\_zip](http://www.filefactory.com/file/4y9iouqnve49/n/CGVE_401_Year_11_12_Maths_V1_zip)

#### **CGVE 402 Year 11+12 Physics 2 V1**



[http://www.filefactory.com/file/li9u47tmbaz/n/CGVE\\_402\\_Year\\_11\\_12\\_Physics\\_2\\_V1\\_zip](http://www.filefactory.com/file/li9u47tmbaz/n/CGVE_402_Year_11_12_Physics_2_V1_zip)

## **CGVE 403 Year 11+12 Software Design V1**

[http://www.filefactory.com/file/4lh1613yoqu9/n/CGVE\\_403\\_Year\\_11\\_12\\_Software\\_Design\\_V1\\_zip](http://www.filefactory.com/file/4lh1613yoqu9/n/CGVE_403_Year_11_12_Software_Design_V1_zip)

## **CGVE 404 Year 11+12 Science V1**

[http://www.filefactory.com/file/2h5el5pkwve5/n/CGVE\\_404\\_Year\\_11\\_12\\_Science\\_V1\\_zip](http://www.filefactory.com/file/2h5el5pkwve5/n/CGVE_404_Year_11_12_Science_V1_zip)

## **CGVE 405 Year 11+12 Design & Technology V1**

[http://www.filefactory.com/file/i7qnk4lfoh/n/CGVE\\_405\\_Year\\_11\\_12\\_Design\\_amp\\_Technology\\_V1\\_zip](http://www.filefactory.com/file/i7qnk4lfoh/n/CGVE_405_Year_11_12_Design_amp_Technology_V1_zip)

## **CGVE 406 Year 11+12 Chemistry V1**

[http://www.filefactory.com/file/7b1obo03kiq1/n/CGVE\\_406\\_Year\\_11\\_12\\_Chemistry\\_V1\\_zip](http://www.filefactory.com/file/7b1obo03kiq1/n/CGVE_406_Year_11_12_Chemistry_V1_zip)

## **CGVE 410 Industrial Technology V1**

[http://www.filefactory.com/file/1zh9pkn4vx67/n/CGVE\\_410\\_Industrial\\_Technology\\_V1\\_Part\\_1\\_zip](http://www.filefactory.com/file/1zh9pkn4vx67/n/CGVE_410_Industrial_Technology_V1_Part_1_zip)

[http://www.filefactory.com/file/2idd8993qq6x/n/CGVE\\_410\\_Industrial\\_Technology\\_V1\\_Part\\_2\\_zip](http://www.filefactory.com/file/2idd8993qq6x/n/CGVE_410_Industrial_Technology_V1_Part_2_zip)

## **School Studies Support Resources for Myanmar Buddhist Monastery Schools**

### **(Free access for general public)**

The following links contain Year K to 6 & Year 7 to 12 curriculum resources& Study materials in Australian Education Standard.

Study support lessons are prepared in the following aspects

- (1) English & Myanmar tutoring lessons are prepared in power points & videos.
- (2) The lessons are being uploaded as well as saved in USB, CD, [DVD](#) and

- (3) Donate them together with books, CD player, DVD players, TV monitor ,computers and electrical power supplies to Myanmar Buddhist Monastery Schools in needs.

### **Certificate in General & Vocational Education Level (3)**

#### **CGVE 301+302+303**

CGVE301- Maths  
CGVE302-Science  
CGVE303 Information Processing

Year 9+10 Maths+ Science+ Information Processing

#### **Textbook**

[http://www.filefactory.com/file/3e4c2olv9hzj/n/Yr\\_9\\_10\\_Maths\\_Science\\_Information\\_Processing\\_pdf](http://www.filefactory.com/file/3e4c2olv9hzj/n/Yr_9_10_Maths_Science_Information_Processing_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/6wd5iqersoiz/n/Inf\\_Process\\_zip](http://www.filefactory.com/file/6wd5iqersoiz/n/Inf_Process_zip)

### **Certificate in General & Vocational Education Level (4)**

CGVE 406 Year 11+12 HSC Chemistry

#### **Text book**

[http://www.filefactory.com/file/22qy5jtmyikp/n/Yr\\_11\\_12\\_HSC\\_Chemistry\\_pdf](http://www.filefactory.com/file/22qy5jtmyikp/n/Yr_11_12_HSC_Chemistry_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/1w0mfev15p2x/n/Chemistry\\_zip](http://www.filefactory.com/file/1w0mfev15p2x/n/Chemistry_zip)

### **Certificate in General & Vocational Education Level (4)**

CGVE 401 Year 11+12 HSC Maths

[http://www.filefactory.com/file/3cafch1pnt77/n/Yr\\_11\\_12\\_HSC\\_Maths\\_pdf](http://www.filefactory.com/file/3cafch1pnt77/n/Yr_11_12_HSC_Maths_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/3lpp9lk2i9d/n/Maths\\_zip](http://www.filefactory.com/file/3lpp9lk2i9d/n/Maths_zip)

**Certificate in General & Vocational Education Level (4)**

CGVE 402+404+405

Year 11+12 HSC Physics+ Science + Design & Technology

**Text book**

[http://www.filefactory.com/file/19jkrcxnqkqz/n/Yr\\_11\\_12\\_HSC\\_Physics\\_Science\\_Design\\_Technology\\_pdf](http://www.filefactory.com/file/19jkrcxnqkqz/n/Yr_11_12_HSC_Physics_Science_Design_Technology_pdf)

CGVE402-Physics

**Curriculum**

[http://www.filefactory.com/file/5l379ts48ocv/n/Physics\\_zip](http://www.filefactory.com/file/5l379ts48ocv/n/Physics_zip)

CGVE404 Science

**Curriculum**

[http://www.filefactory.com/file/bteirsv3sy3/n/Science\\_zip](http://www.filefactory.com/file/bteirsv3sy3/n/Science_zip)

CGVE405 Design & Technology

**Curriculum**

[http://www.filefactory.com/file/2o7sfnapua25/n/DST\\_zip](http://www.filefactory.com/file/2o7sfnapua25/n/DST_zip)

**Certificate in General & Vocational Education Level (4)**

CGVE 407+408+403

Year 11+12 HSC Statistics+ Introductory Physics+Software Design

CGVE407 Statistics

[Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](#)

[\*\*Master of Science \(Renewable Energy Engineering\)\*\*](#)

[Master of Science \(Renewable Energy\) Learning Support Website](#)

[Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](#)

[\*\*Master of Science \(Renewable Energy Engineering\)\*\*](#)

[Master of Science \(Renewable Energy\) Learning Support Website](#)

## QUESTIONS AND ANSWERS

I would like to know that online teaching will be effected to students or not,

In our online program, all students will have to download the lessons or copy from our representative.

Effectiveness does not depend on whether you attend the class personally or you learn the lessons online.

It depends on what you really study, absorb, reflect and apply it.

Today more and more universities with high academic reputations are using online learning & blended learning systems. The lecturers spend merely 1 hours per week lecture class and the students will have to download their lectures/ powerpoints and slides from online.

Spoon feeding system in which the teachers feed every things to the students is just enough for course completion but in real workplace, there will be very few employers who want to provide every need of employees. They pay the salaries so the employees will need to do themselves in the jobs .

Our online learning system is not only to enable the students to complete the course but also to provide the self study / self learning/ self time setting practice to the students to depend themselves in their future workplaces.

How we can analysis to the lessons,

In our program, the lessons are provided in both English & Myanmar explanations & in power point or JPG+MP3. So it is easy to follow them.

The exercises assignments are based on lecture slides.

What the class times are,

It is flexible & you can study at your place at anytime No need to spend a specific time for online class because we are not running the real time sessions such as webinars etc . Because busy working people need the flexibility in their studies.

Which kinds of diploma will be approved for our accomplishment-

You can start to enrol Diploma in Management/ Engineering & Information Technology then Advanced Diploma in Management/ Engineering & Information Technology Management then professional diploma+ Bachelor of Business Management/ Engineering & Information Technology

Please show me some example,and I was also thinking about that the online diploma will be accepted on which applying schools or jobs.

On the diploma, there is no mention about online or personal attendance, the academic transcript shows what units you complete.

Today, the employers want to have the candidates who can actually do the jobs. They want to pay the salaries to the skills of the employees not the certificate.

The more important thing is writing of your CV. If you can put the facts which are related to the skills needed by the employer, it will be the better chance for you to get the interview.

If you got the qualifications from a well recognized university or college, it will be enough for you to get the interview but the success in interview will depend on your real skills.

Our programs are affiliated to The Institute of Professional Business & Technical Managers-UK & International Institute of Science Engineering & Management and Singapore Institute of Engineering Technologists.

Our programs are not only focussed on academic but also focussed in the following job skills & competencies

### Engineering

[www.highlightcomputer.com/EngineeringJobCompetencies.pdf](http://www.highlightcomputer.com/EngineeringJobCompetencies.pdf)

### Information Technology

[www.highlightcomputer.com/InformationTechnologyJobCompetencies.pdf](http://www.highlightcomputer.com/InformationTechnologyJobCompetencies.pdf)

### Management

[www.highlightcomputer.com/ManagementJobCompetencies.pdf](http://www.highlightcomputer.com/ManagementJobCompetencies.pdf)

Regarding, applying school, IQY Technical College provide Year 9 to Professional Diploma level & our affiliated St Clements Technological University provides the Masters degrees.

As our organizations are providing the Job Competencies, we do not link & intend to link with any other academically focussed institutions

And also, Is there any limit or requirement to apply the courses because I am more prefer to apply in professional diploma .

As I mentioned before, Diploma is open for all students whether they pay the fees or not but for Advanced Diploma to Professional Diploma, the students must be

(1) Fees paying

OR

(2) Recommended by Voluntary school

OR

### (3) Recommended by employers

Only a small amount of fees is payable to our representative in Yangon to copy the electronic lessons into your USB if you are a scholarship student.

#### Are IQY Technical College & St Clements University recognized institutions?

Please see the followings on our main webpage.

IQY Technical College of Highlight Computer Group (Myanmar) is an authorized training centre of Singapore Institute of Engineering Technologists for ASEAN Engineer, ASEAN Engineering Technologist and ASEAN Engineering Technician Registration.

IQY Technical College of Highlight Computer Group is affiliated to St Clements Technological University, International Institute of Science, Engineering & Management & The Institute of Professional Business & Technical Managers.

There are many Government Education Departments/ Educational Authorities/ Universities & Accreditation Organizations on the world which set up the guidelines on what qualifications are to be recognized or not.

Practically, Getting job and income is paramount requirement for most people. So the meaning of recognition is getting the jobs based on qualifications. After having spent US\$ 6000 to 10000 , the student can get a diploma from a recognized college from an industrialized country. Having spent US\$ 100,000, the student can get a bachelors degree.

But today, having spent a lot of money, the numbers of the graduates who can get the jobs in their professions after completion of their courses are much lower than the numbers of graduates who do not get the jobs in their professions and do any kinds of jobs OR return back to their home countries after having exhausted the efforts to get the jobs and permanent residency.

In the latter case, the meaning of recognition is to be questioned. Recognition means the kind of certificate or getting the jobs?. If the graduate who got the recognized qualification from a particular country & can not get the job in that country, how can such qualification be trusted that it can be sufficient to get the job in the other parts of the world & is it the right value of return on investment in education?

IQY Technical College's aims & objectives are to provide the international class education in line with the following work competencies & break high fees which is the barrier between learners and education. The meaning of recognition should not be stand alone, it should link to the right value of return on investment in education for the average working class people.

We also have the well connected employers network in Myanmar & we also set up the following recognition guidelines

<http://www.highlightcomputer.com/recognitionpolicy.htm>



Highlight [Computer](#) Group affiliated to St Clements University & S.T.C Technological University of British West Indies and IQY Technical [College](#)  
[Online Learning System](#)

[www.highlightcomputer.com](http://www.highlightcomputer.com)

[www.stclementstu.com](http://www.stclementstu.com)

### **About the IQY Technical College & Highlight Computer Group**

IQY [Technical College](#) of Highlight Computer Group teaches St Clements University & STC Technological University of British West Indies' Diploma/ Advanced Diploma and Bachelor Degree [programs](#) in [Electrical](#) ,Mechanical, Civil, Automotive & Marine Engineering, [Information](#) Technology and Management [courses](#) to the students of Myanmar at the price affordable to average working class people of Myanmar for development of Myanmar.

IQY [Technical College](#) is also an Authorized [Training](#) Centre of Singapore Institute of Engineering Technologists & it's Engineering Qualification awards are recognized in Singapore

### **IQY TECHNICAL COLLEGE CRAEER FLOW DIAGRAM**

Click [HERE](#)

[Course Listing](#)

Click [HERE](#) to access the course information back up site.

Click [HERE](#) to access the online link instruction videos.

[Advertisement for Singapore Institute of Engineering Technologists Recognized Engineering Courses Written in Myanmar](#)

[Advertisement for Institute of Professional Business and Technical Managers-United Kingdom Recognized Business Management Courses](#)

[Advertisement for International Institute of Science. Engineering and Management Recognized Information Technology Courses](#)

[Advertisement for IQY Technical College Courses Written in Myanmar](#)

[Advertisement for Highlight Computer Group Courses Written in Myanmar](#)

**Pre-vocational Program for Engineering, Information Technology & Business Management**

**DVD based Learning Program**

**Powerpoint based Learning Program**

**Year 7 to 12 Study Support** (10213/10313)

**Pre-vocational Courses Online Teaching** (10113)

**Detailed contents of the programs**

**Enrolment procedures written in Myanmar**

**Enrolment Form**

**Online Tutoring & Learning support website**

**Detailed contents of the programs**

**IQY Technical College Diploma /Advanced Diploma & Professional Diploma Programs**

**Detailed Contents of BE,B Bus& B App Sc (IT) Programs**

**Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs**

**Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering (Renewable Energy)**

**Professional Diploma in Engineering (Electrical/ Civil/Mechanical with Renewable Energy)** (Course 67110A/67111A)

**Professional Diploma/ Advanced Diploma in Engineering  
(Engineering Practice) for Diploma/AGTI/BTech/BE Degree holders** (Course 67110/67111)

# Career Conversion Courses for BE/BTech/AGII/City & Guild Diplomas

## Diploma Programs (IQY Technical College)

[Electrical Engineering Course Outline \(20112/30112/30112\)](#)

[Management Course Outline \(26113/36113/46114\)](#)

[Information Technology Course Outline \(23112/33112/43113\)](#)

[Certificate in Information Technology Course Outline \(23112\)](#)

[Diploma in Information Technology Course Outline \(33112\)](#)

[Advanced Diploma in Information Technology Course Outline \(43113\)](#)

[Mechanical Engineering Course Outline \(20312/30312/40313\)](#)

[Civil Engineering Course Outline \(20212/30212/40213\)](#)

[Automotive Engineering Course Outline \(30512\)](#)

[Advanced Diploma in Engineering Design \(Electrical/Civil/Mechanical\) \(30915/31015/31115\)](#)

[Advanced Diploma in General Engineering and Drafting \(with Basic Business and IT\) \(32115\)](#)

For the students who have not passed Year 10/ University Entrance Examination.

Tutoring for the university entrance examination level subjects are concurrently provided

[Diploma in Engineering \(Drafting and Design\) \(20915\)](#)

[Marine Engineering Course Outline \(30612\)](#)

[Certificate in Financial Management \(26315\)](#)

[Certificate in Financial Management Learning Support Website\(26315\)](#)

[Diploma in Telecommunication Engineering \(30116\)](#)

## **SELF STUDY ENGINEERING PROFESSIONAL DIPLOMA PROGRAMS**

[Self study online CPD Courses \(12111/13111\)](#)

[Professional Diploma in Architectural Engineering \(60116\)](#)

[Professional Diploma in Metallurgical & Materials Engineering \(60216\)](#)

[Professional Diploma in Mineral Extraction & Explosion Protection Engineering \(Combined Mining & Petroleum Course\) \(60316\)](#)

[Professional Diploma in Chemical Engineering \(60416\)](#)

[Diploma in Marine Electrical Engineering \(30216\)](#)

## **Bachelor Degree Programs (St Clements University Higher Education School & St Clements Technological University of British West Indies)**

[Bachelor of Engineering \(Electrical/ Civil/ Mechanical with Renewable Energy\) Course outline](#)

[Bachelor of Engineering \(Electrical Engineering\) Course Outline \(60114/61112\)](#)

[Bachelor of Applied Science \(Computer Science & Computer Technology\) \(63112/63212\)](#)

[Bachelor of Engineering \(Mechanical Engineering-Mechatronics\) Course Outline \(61012/61512\)](#)

[Bachelor of Engineering \(Civil Engineering-Building Services\) Course Outline \(60912/61412\)](#)

## **Graduate Diploma / Graduate Bachelors Degree Programs**

[Graduate Diploma of Civil Engineering + Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline \(70214/71215\)](#)

[Bachelor of Engineering \(Civil\) Course outline \(60214/61212\)](#)

[Bachelor of Engineering \(Mechanical\) Course outline \(60314/61312\)](#)

-

[Graduate Diploma of Mechanical Engineering + Bachelor of Applied Engineering \(Final Year Mechanical Design\) Course Outline \(70314/71415\)](#)

[Bachelor of Business /Bachelor of Applied Management Course Outline\(66113/66515\)](#)

[Bachelor of Engineering Management Course Outline \(66213\)](#)

[Graduate Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline\(70714\)](#)

[Certificate in Teaching Support+ Diploma in Teaching Practice+ Bachelor of Teaching+ Bachelor of Education \(School & Vocational\) \(66213/66313\)](#)

[Scholarship Application Form for Volunteer Teachers](#)

[Double Degrees \(BE+BMgt/ BE+BAppSc\(IT\)/ BMgt+BAppSc\(IT\)](#)

[Myanmar Engineers Board Professional Engineer \(PE\) \(Electrical+ Civil+ Mechanical\) Registration Support Program](#)

[ASEAN Engineer Training Program \(Engineering Traineeship\) of Singapore Institute of Engineering Technologists + IQY Technical College](#)

[Graduate Diploma & Master of Engineering Practice \(Electrical/Civil/ Mechanical\) for Graduate Engineers](#)

(72115/73315/72515/72315/72415/82115/82215/82315/82415/)

[Certificate of Attendance in Diploma/ Professional Diploma in Engineering, Management and Information Technology Programs \(A66223\) Form-Click \[HERE\]\(#\)](#)

[Graduate Diploma of Engineering Practice \(Electrical\) Course \(70114/71115\)](#)

[Graduate Diploma of Engineering Practice \(Electronics\) Course\(71114/72515\)](#)

[Graduate Diploma of Engineering Practice \(Mechanical\) Course \(70314/72315\)](#)

[Graduate Diploma of Engineering Practice \(Civil\) Course \(70214/72215\)](#)

[Professional Diploma in Hazardous Safety Engineering \(60814\)](#)

[AUSTRALIAN ELECTRICIAN TRAINING \(41108/51413\)](#)

[Professional Diploma in Electrical Engineering \(Electrical Power & Electronics\) \(60115\)](#)

**Master Degree Programs (St Clements Technological University of British West Indies)**

**Master of Science (Information Technology)/Master of Information Technology**

(73114/73214/83215)

**(Master Diploma in Applied Science-Information Technology)**

(73114/73214/83215)

**Master of Management** (76114/76214/86215)

**Master Diploma in Management** (76114/76214/86215)

**IQY Diploma in Doctorate Studies** (90110)

**Master of Science (Engineering) / Master of Engineering**

**IQY Master Diploma In Engineering/ Applied Science/Management- Research Programs** (80214/81215) (80314/81315) (80114/81115)

**Master of Engineering +Graduate Diploma in Engineering (Civil) Course Outline** (80214/81215)

**Master of Engineering +Graduate Diploma in Engineering (Mechanical) Course Outline** (80314/81315)

**Master of Engineering +Graduate Diploma in Engineering (Electrical) Course Outline** (80114/81115)

**Master of Science (Renewable Energy Engineering)** (80914)

**Master of Engineering (Renewable Energy)** (80414)

**IQY Masters Degree (M Mgt+ ME (EE,CE,ME)+M App Sc (IT)+MSc (RE)+ Associate Degree in RE+ BE (Civil+ Mechanical) Courses Learning Support Website**

**Master of Science (Renewable Energy) Learning Support Website** (80914)

**Practical Courses (Certificate of Attendance) Learning Support Site** (10515)

**Certificate II, III, IV in Workplace English + Engineering & Diploma to Associate Degree in Engineering Practice Course Outline** (11114/21114/21214/50115/50215/50315/50715)

[Certificate II, III, IV in Workplace English + Engineering & Diploma to Associate Degree in Engineering Practice Learning Support Site \(11114/21114/21214\)](#)

[Professional Diploma in Technical Teaching \(Training, Assessment & Learning Management\)](#)

(10615/46415/56415/66415/76415)

[Diploma in Engineering Education for Government Technical Colleges & Technological University Teachers & Vocational Education Teachers in Myanmar](#)

(10615/46415/56415/66415/76415)

[Professional Engineers Support Course](#)

(73115/73215/73315/73715/73815)

[Engineering Fundamental Course](#)

(73115/73215/73315/73715/73815)

[Business Management Programs](#)  
[UK Business Courses](#)

(37115/47115/34115/44115/21306)

[Engineering Fundamental & PE Support](#)

(73115/73215/73315/73715/73815)

[Australian Bachelors Degree in Engineering](#)

(62115)

[Australian Civil Engineering](#)

(41215)

[Australian Mechanical Engineering](#)

(41315)

## General Vocational Courses

(10615)

### IQY Technical College/ St Clements University Humanities

#### Study Programs

(37001/47001/57001/67001)

#### Contacts:

(Australia)

#### Head Office Address

Daw Hla Myat Mon-Phone: 61-424533344  
PO BOX 227 Marrickville, NSW 1475  
Sydney, Australia

#### E mail

iqytechnicalcollege@gmail.com

(Yangon)

### Engineering& Trade Training Centres & E –Learning Centre Addresses

**Contact: U Kyaw Zin Thet Mobile: 09402679529**

#### Resources Centre + E-Library

No 33 , Third Floor Left, Dagon Thiri Street, Kyauk-myaung, Tamwe Township, Yangon

#### South Okkalapa

No 703 Myitta Street, 12 Ward , South Okkalapa Township, Yangon

#### Yazana Garden City, Dagon Seik-Kan Township



Building 28, Room 404 , 5<sup>th</sup> Floor, 8<sup>th</sup> Street, Group (B), 94 Ward,  
Yuzana Garden City, Dagon Seik-Kan Township

**IT Training Kyauk-Myaung Centre Address**

**Contact: U Htin Aung -----Mobile: 0973146123**

No 23 ( 6<sup>th</sup> Floor) Myothit 1 st Street, Kyauk-myaung  
Tamwe Township, Yangon, Myanmar

No 307 (B) Thura 2 Street, 9 Ward, South Okkalapa Township, Yangon

**E mail**

highlightcomputergroup@gmail.com

(Mandalay)

U Kyaw Zin Thet---Mobile: 09402679529

**E mail**

ukyawzinthet@gmail.com

**Overseas Contact**

iqytechnicalcollege@gmail.com

Phone: 61-424533344

**PO BOX 227, Marrickville, NSW 1475, Sydney, Australia**

# **Pre-vocational Program for Engineering, Information Technology & Business Management**

**DVD based Learning Program**

**Powerpoint based Learning Program**

**Year 7 to 12 Study Support**

**Pre-vocational Courses Online Teaching**

# **Pre-vocational Program for Engineering, Information Technology & Business Management**

**DVD based Learning Program**

**Powerpoint based Learning Program**

**Year 7 to 12 Study Support**

**Pre-vocational Courses Online Teaching**

## Pre-vocational Course for Engineering & Information Technology

### CGVE 401 Year 11+12 Maths V1

[EE201 Part 1](#) [EE201 Part 2](#) [EE201 Part 3](#) [EE201 Part 4](#)

#### Test & Assessment

[http://www.filefactory.com/file/5ho7s6h0svhv/n/E050\\_Online\\_Test\\_1\\_Answer\\_doc](http://www.filefactory.com/file/5ho7s6h0svhv/n/E050_Online_Test_1_Answer_doc)

[http://www.filefactory.com/file/6dgo87kdsorz/n/E050\\_Online\\_Test\\_1\\_Question\\_pdf](http://www.filefactory.com/file/6dgo87kdsorz/n/E050_Online_Test_1_Question_pdf)

Do the tests and send the answer sheet in soft copy by e-mail to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

### CGVE 402 Year 11+12 Physics 2 V1

[EE204 Part 1](#) [EE204 Part 2](#) [EE204 Part 3](#) [EE204 Part 4](#) [EE204 Part 5](#)

[EE204 Part 6](#)

#### Test & Assessment

[http://www.filefactory.com/file/13o82qnudgr3/n/E046\\_Online\\_Test\\_1\\_Question\\_pdf](http://www.filefactory.com/file/13o82qnudgr3/n/E046_Online_Test_1_Question_pdf)

[http://www.filefactory.com/file/6o2lsbtqe7tt/n/E046\\_Online\\_Test\\_1\\_Answer\\_doc](http://www.filefactory.com/file/6o2lsbtqe7tt/n/E046_Online_Test_1_Answer_doc)

Do the tests and send the answer sheet in soft copy by e-mail to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

### CGVE 403 Year 11+12 Software Design V1

[BAE603-ICT 105 106 Wk 2](#)

CGVE 403 Exercises

[http://www.filefactory.com/file/7hjp7d2xirsz/n/ICT\\_Wk\\_15\\_16\\_docx](http://www.filefactory.com/file/7hjp7d2xirsz/n/ICT_Wk_15_16_docx)

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### CGVE 404 Year 11+12 Science V1

[ME101 Part 1](#)

## [ME101 Part 2](#)

## [ME102 Part 1](#)

## [ME102 Part 2](#)

### CGVE 404 Exercises

[http://www.filefactory.com/file/2ybrftr402up/n/Wk\\_2\\_ME101\\_docx](http://www.filefactory.com/file/2ybrftr402up/n/Wk_2_ME101_docx)

## CGVE 405 Year 11+12 Design & Technology V1

### [CE 104 Part 1](#) [Building Drawing Part 1](#)

### [EE102 Basic Electrical Fitting & Wiring](#)

[Lesson 1](#) [Lesson 2](#) [Lesson 3](#)

### [Test & Assessment](#)

<http://www.classroomclipboard.com/503511/Home/Test/e3b8ef2c72e94d209034f9633e22c26a#/InitializeTest.xaml>

Type your name Put the following access code

CEAHU

### CGVE 405 Exercises

[http://www.filefactory.com/file/10pysp4ouk7d/n/Wk\\_3-EE103\\_Basic\\_Electrical\\_Drafting\\_Exercises\\_docx](http://www.filefactory.com/file/10pysp4ouk7d/n/Wk_3-EE103_Basic_Electrical_Drafting_Exercises_docx)

[http://www.filefactory.com/file/1tx9gizgcakr/n/EE102\\_Exercises\\_docx](http://www.filefactory.com/file/1tx9gizgcakr/n/EE102_Exercises_docx)

[http://www.filefactory.com/file/2goduqbqsp8h/n/Stage\\_1\\_Electrical\\_workshop\\_practicals\\_for\\_advanced\\_diploma\\_students\\_Version\\_1\\_pdf](http://www.filefactory.com/file/2goduqbqsp8h/n/Stage_1_Electrical_workshop_practicals_for_advanced_diploma_students_Version_1_pdf)

[http://www.filefactory.com/file/4w7tq3x3r4dz/n/Wk\\_6\\_docx](http://www.filefactory.com/file/4w7tq3x3r4dz/n/Wk_6_docx)

## CGVE 406 Year 11+12 Chemistry V1

[http://www.filefactory.com/file/6e3rwtputyl5f/n/E081\\_Wk\\_7\\_pdf](http://www.filefactory.com/file/6e3rwtputyl5f/n/E081_Wk_7_pdf)

[http://www.filefactory.com/file/5prjqhktjsx/n/001\\_A\\_001\\_U\\_Kyaw\\_Naing\\_mp3](http://www.filefactory.com/file/5prjqhktjsx/n/001_A_001_U_Kyaw_Naing_mp3)

CGVE 406 Exercises

[http://www.filefactory.com/file/5tbqm6vko6gf/n/E081\\_Material\\_Science\\_Tutorial\\_doc](http://www.filefactory.com/file/5tbqm6vko6gf/n/E081_Material_Science_Tutorial_doc)

## CGVE 410 Industrial Technology V1

ME205 Part 1

ME205 Part 2

CGVE 410 Exercises

[http://www.filefactory.com/file/3mbbcgkabvat/n/Wk\\_6\\_ME\\_205\\_docx](http://www.filefactory.com/file/3mbbcgkabvat/n/Wk_6_ME_205_docx)

[http://www.filefactory.com/file/30p22rk6u1zz/n/Pre-vocational\\_Course\\_for\\_Engineering\\_IT\\_html](http://www.filefactory.com/file/30p22rk6u1zz/n/Pre-vocational_Course_for_Engineering_IT_html)

[http://highlightcomputergroup4.zoomshare.com/files/Program\\_Enrolment.htm](http://highlightcomputergroup4.zoomshare.com/files/Program_Enrolment.htm)

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## Pre-vocational Course for Engineering & Information Technology

### CGVE 401 Year 11+12 Maths V1

[EE201 Part 1](#) [EE201 Part 2](#) [EE201 Part 3](#) [EE201 Part 4](#)

#### Test & Assessment

[http://www.filefactory.com/file/5ho7s6h0svhv/n/E050\\_Online\\_Test\\_1\\_Answer\\_doc](http://www.filefactory.com/file/5ho7s6h0svhv/n/E050_Online_Test_1_Answer_doc)

[http://www.filefactory.com/file/6dgo87kdsorz/n/E050\\_Online\\_Test\\_1\\_Question\\_pdf](http://www.filefactory.com/file/6dgo87kdsorz/n/E050_Online_Test_1_Question_pdf)

Do the tests and send the answer sheet in soft copy by e-mail to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

### CGVE 402 Year 11+12 Physics 2 V1

[EE204 Part 1](#) [EE204 Part 2](#) [EE204 Part 3](#) [EE204 Part 4](#) [EE204 Part 5](#)

[EE204 Part 6](#)

#### Test & Assessment

[http://www.filefactory.com/file/13o82qnudgr3/n/E046\\_Online\\_Test\\_1\\_Question\\_pdf](http://www.filefactory.com/file/13o82qnudgr3/n/E046_Online_Test_1_Question_pdf)

[http://www.filefactory.com/file/6o2lsbtqe7tt/n/E046\\_Online\\_Test\\_1\\_Answer\\_doc](http://www.filefactory.com/file/6o2lsbtqe7tt/n/E046_Online_Test_1_Answer_doc)

Do the tests and send the answer sheet in soft copy by e-mail to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

### CGVE 403 Year 11+12 Software Design V1

[BAE603-ICT 105 106 Wk 2](#)

CGVE 403 Exercises

[http://www.filefactory.com/file/7hjp7d2xirsz/n/ICT\\_Wk\\_15\\_16\\_docx](http://www.filefactory.com/file/7hjp7d2xirsz/n/ICT_Wk_15_16_docx)

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### CGVE 404 Year 11+12 Science V1

[ME101 Part 1](#)

[ME101 Part 2](#)

[ME102 Part 1](#)

[ME102 Part 2](#)

[CGVE 404 Exercises](#)

[http://www.filefactory.com/file/2ybrftr402up/n/Wk\\_2\\_ME101\\_docx](http://www.filefactory.com/file/2ybrftr402up/n/Wk_2_ME101_docx)

## CGVE 405 Year 11+12 Design & Technology V1

[CE 104 Part 1](#) [Building Drawing Part 1](#)

[EE102 Basic Electrical Fitting & Wiring](#)

[Lesson 1](#) [Lesson 2](#) [Lesson 3](#)

[Test & Assessment](#)

<http://www.classroomclipboard.com/503511/Home/Test/e3b8ef2c72e94d209034f9633e22c26a#/InitializeTest.xaml>

Type your name Put the following access code

CEAHU

[CGVE 405 Exercises](#)

[http://www.filefactory.com/file/10pysp4ouk7d/n/Wk\\_3-EE103\\_Basic\\_Electrical\\_Drafting\\_Exercises\\_docx](http://www.filefactory.com/file/10pysp4ouk7d/n/Wk_3-EE103_Basic_Electrical_Drafting_Exercises_docx)

[http://www.filefactory.com/file/1tx9gizgcakr/n/EE102\\_Exercises\\_docx](http://www.filefactory.com/file/1tx9gizgcakr/n/EE102_Exercises_docx)

[http://www.filefactory.com/file/2goduqbqsp8h/n/Stage\\_1\\_Electrical\\_workshop\\_practicals\\_for\\_advanced\\_diploma\\_students\\_Version\\_1\\_pdf](http://www.filefactory.com/file/2goduqbqsp8h/n/Stage_1_Electrical_workshop_practicals_for_advanced_diploma_students_Version_1_pdf)

[http://www.filefactory.com/file/4w7tq3x3r4dz/n/Wk\\_6\\_docx](http://www.filefactory.com/file/4w7tq3x3r4dz/n/Wk_6_docx)

## CGVE 406 Year 11+12 Chemistry V1



[http://www.filefactory.com/file/6e3rwtputyl5f/n/E081\\_Wk\\_7\\_pdf](http://www.filefactory.com/file/6e3rwtputyl5f/n/E081_Wk_7_pdf)

[http://www.filefactory.com/file/5prjqhktjsx/n/001\\_A\\_001\\_U\\_Kyaw\\_Naing\\_mp3](http://www.filefactory.com/file/5prjqhktjsx/n/001_A_001_U_Kyaw_Naing_mp3)

CGVE 406 Exercises

[http://www.filefactory.com/file/5tbqm6vko6gf/n/E081\\_Material\\_Science\\_Tutorial\\_doc](http://www.filefactory.com/file/5tbqm6vko6gf/n/E081_Material_Science_Tutorial_doc)

## CGVE 410 Industrial Technology V1

ME205 Part 1

ME205 Part 2

CGVE 410 Exercises

[http://www.filefactory.com/file/3mbbcgkabvat/n/Wk\\_6\\_ME\\_205\\_docx](http://www.filefactory.com/file/3mbbcgkabvat/n/Wk_6_ME_205_docx)

[http://www.filefactory.com/file/30p22rk6u1zz/n/Pre-vocational\\_Course\\_for\\_Engineering\\_IT\\_html](http://www.filefactory.com/file/30p22rk6u1zz/n/Pre-vocational_Course_for_Engineering_IT_html)

[http://highlightcomputergroup4.zoomshare.com/files/Program\\_Enrolment.htm](http://highlightcomputergroup4.zoomshare.com/files/Program_Enrolment.htm)

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# **Civil/Mechanical/Electrical Engineering Practical Courses for AGTI/BTech/BE students of Government Technical Colleges & Technological Universities**

If you find the question in Myanmar language, the lessons in Myanmar language for that question is also provided.

**PC 1-Certificate in Bricklaying & Masonry**

**PC 2-Certificate in Plumbing**

**PC 3-Certificate in Building Construction**

**PC 4-Certificate in Gutter Construction**

**PC 5-Certificate in Fitting & Machining**

**PC 6-Certificate in Welding**

**PC 7-Certificate in Engine Operation & Basic Servicing**

**PC 8-Certificate in Air-conditioning & Refrigeration Basic Servicing**

**PC 9-Certificate in Electrical Wiring**

**PC 10-Certificate in Electrical Machine Winding**

**PC 11-Certificate in Electrical Power Wiring & Switch Gear Installation**

**(PC15/H102) Certificate in Basic Electronics & Telecommunication**

**PC16 Certificate in Rigging & Scaffolding**

**PC Practical Course (Level 2 for Engineering Technicians)**

**PC 12-Certificate in Surveying. Quantity Surveying & Estimating**

**PC 13-Certificate in Manufacturing Process Control & CNC**

**PC 14-Certificate in Building Energy Efficiency**

## IQY Technical College Refund Policy

[www.highlightcomputer.com/iqyrefundpolicy.pdf](http://www.highlightcomputer.com/iqyrefundpolicy.pdf)

IQY Technical College သည်မိမိတို့ ဖက်မှလစ်ဟင်းချက်ကြောင့် ကိုယ်တိုင်တက်  
(သို့ မဟုတ်) Online ဖြင့်မသင်ပေးနိုင်ပါကကျောင်းသားပေးငွေပြန်အမ်းမည်။

ကိုယ်တိုင်တက်ရန်မဖြစ်ကကျောင်းသားသည် Online သို့ ပြောင်းနိုင်သည်။ကျောင်းသားဖက်ကပျက်ကွက်  
မှအတွက်သင်တန်းကြေးပြန်အမ်းမည်မဟုတ်။

အကယ်၍ကိုယ်တိုင်တက်မှ Online သို့ သင်ကြားမှုပုံစံပြောင်းပါက ကိုယ်တိုင်တက်ကြေးထက်  
ဝက်ကိုနောက်သင်တန်းသို့ ထွဲပေးမည်။

နိုင်ငံခြားအသိအမှတ်ပြုသင်တန်းကိုဈေးသက်သာစွာစီစဉ်ထားသည့်အပြင်မှတ်စုများကို Online  
မှရယူနိုင်သ ဖြင့်သင်ကြားမှုပုံစံပြောင်းခြင်းအတွက်သင်တန်း ကြေး ပြန်အမ်းမည်မဟုတ်။

Refund Policy ကိုကျောင်းသားများသိသာရန် Online Enrolment တွင်တင်ထားပြီးလက်ခံမှစာရင်း  
သွင်းငွေပေးရန်။ငွေလက်ခံမှုမပြုခင်အသိပေးရန်။

IQY Technical College can not refund the fees to the students unless we cancel  
the course without offering personal attendance or online.

If the students can not attend the personal attendance programs, they can  
change to online program.

If the students pay the fees for personal attendance but due to any  
circumstance, the program is changed to online, only half fees of personal  
attendance program will be charged and the remaining fees will be credited to  
second program.

As we are only charging the low fees for foreign recognized programs, and the  
students can access to our study resources, we can not refund the fees if we  
change the mode of teaching.

The refund policy is posted to online enrolment facilities and you pay the fees  
only if you accept it,

The staff who accepts the fees need to inform the student.

I agree with refund policy





## IQY Qualifications and Myanmar Qualifications Matching-Engineering/ Engineering Education

<b>IQY Level</b>	<b>IQY Qualifications Framework (IQYQF)</b>	<b>Level</b>	<b>Myanmar National Qualifications Framework</b>	<b>Equivalency/ Assessment/ Advanced Standing</b>
<b>1</b>	Year 9 to 12 Bridging Education Certificate	1/2	High School Level 2 Primary School Level 1	Matured age people experiences are to be taken into account for bridging courses
	Myanmar Vocational Training Certificate Level 1 (MVTC 1)	1	V&T C /SC1 (TVET) (Primary/Middle School Qualifications)	Only vocational training aspects will be equated
	Myanmar Vocational Training Certificate Level 2 (MVTC 2)	2	V&T C /SC2(TVET) (High School Qualifications)	Only vocational training aspects will be equated
	Myanmar Vocational Training Certificate Level 3 (MVTC 3)	3	V&T C /SC3(TVET)	Only vocational training aspects will be equated/ Other degrees
	All Diploma Part 1 (Advanced Certificate) / Advanced Diploma in General Engineering	4	V&T C /SC4(TVET)	BE/BTech Year 1/ AGTI incomplete/ Different discipline diploma / C&G Level 3 Same or Different Discipline
<b>2</b>	Diploma in Engineering Part 2-Specialized Discipline/	5	TVET Diploma	BE/BTech Year 2/AGTI completed without experience/All other same or relevant discipline diplomas/ C&G Level 4 Same discipline
	Advanced Diploma (Diploma in Engineering Education Level 1-Diploma in Vocational Education and Training)	5	TVET Advanced Diploma	AGTI with experience/ BE (Year 3) /BTech (Year 3) Same discipline /C&G Level 5 Same discipline  For other degrees, assessment will be based on individual subject/
<b>3</b>	Professional Diploma Part 1 (Year 3)  (Diploma in Engineering Education Level 2-Diploma in Technical Teaching)	5	Associate Degree	Professional Level Degree such as (Same discipline BE(Year 4) BTech (Final Year) C&G Level 6) / BE Different discipline (Complete)  For other degrees, assessment will be based on individual subject
	Professional Diploma Part 2 (Year 4)  (Diploma in Engineering Education Level 3-Diploma in Engineering Education)	6	Bachelors Degree TVET Degree	Same discipline Professional Level Degree such as BE(Year 5/6)/BTech complete  For other degrees, assessment will be based on individual subject

4	Master Diploma Part A (Diploma in Engineering Education Level 4-Diploma in Engineering Education-Specialist Studies)	7	Postgraduate Diplomas	
	Master Diploma Part B/ Master Diploma in Research Studies	7	Masters	
5	Diploma in Doctoral Studies	8	Doctorate degree	

### IQY Qualifications and Myanmar Qualifications IT/Management/ Humanities/Teaching

<b>IQY Level</b>	<b>IQY Qualifications Framework (IQYQF)</b>	<b>Level</b>	<b>Myanmar National Qualifications Framework</b>	<b>Equivalency/ Assessment/ Advanced Standing</b>
1	Year 9 to 12 Bridging Education Certificate	1/2	High School Level 2 Primary School Level 1	Matured age people experiences are to be taken into account for bridging courses
	Myanmar Vocational Training Certificate Level 1 (MVTC 1)	1	V&T C /SC1 (TVET) (Primary/Middle School Qualifications)	Only vocational training aspects will be equated
	Myanmar Vocational Training Certificate Level 2 (MVTC 2)	2	V&T C /SC2(TVET) (High School Qualifications)	Only vocational training aspects will be equated
	Myanmar Vocational Training Certificate Level 3 (MVTC 3)	3	V&T C /SC3(TVET)	Only vocational training aspects will be equated
	All Diploma Part 1 (Advanced Certificate) / Half of Diploma in IT/Management/ Humanities	4	V&T C /SC4(TVET)	Any degree Year 1/ Any Diploma incomplete/ C&G Level 3 Same or Different Discipline
2	Full Diploma in IT/Management/ Humanities/Teaching Practice	5	TVET Diploma	Any degree Year 2/ Any Diploma completed without experience/All other same or relevant discipline diplomas/ C&G Level 4 Same discipline
	Advanced Diploma in IT/Management/ Humanities	5	TVET Advanced Diploma	Diploma with experience/ Any degree year 3 /C&G Level 5 Same discipline  For other degrees, assessment will be based on individual subject/
	Professional Diploma Part 1 in IT/Management/	5	Associate Degree	Any degree year 4/C&G Level 6  The assessment will be based on



3	Humanities/			individual subject
	Professional Diploma Part 2 in IT/Management/ Humanities/  Professional Diploma in School and Vocational Education	6	Bachelors Degree  TVET Degree	Professional Level Degrees such as Engineering/Medicine/law etc  The assessment will based on individual subject
4	Master Diploma Part A (Diploma in Engineering Education Level 4- Diploma in Engineering Education-Specialist Studies)	7	Postgraduate Diplomas	
	Master Diploma Part B/ Master Diploma in Research Studies	7	Masters	
5	Diploma in Doctoral Studies	8	Doctorate degree	

V&T S/C—Vocational Training Certificate/ Skills Certificate ---- Other degree—Non Engineering degrees

AGTI/BE/BTech/City & Guild Diploma / Engineering Diploma can be given entry to IQY Advanced Diploma/ Professional Diploma. Other Qualifications need to do IQY Diploma

Ref <http://www.iqytechnicalcollege.com/Myanmar National Qualifications Framework.pdf>

IQY Technical College တွင် အချိန်တိုတောင်းစွာဖြင့် Assignment ကူးချပြီး BE ဘွဲ့ရရန် လုပ်ဆောင်မှုကို အောက်ပါ အစီအစဉ် ဖြင့် ကာကွယ်ရန် လိုအပ်သည်။

## ဒီပလိုမာ ကိုယ်တိုင်တက်သင်တန်းများ

### (ပထမဆင့်)

THS Program (Diploma in General Engineering) ကို ငါး တက်ရောက်ပြီး Diploma in General Engineering ပေးမည်။ ကျောင်းလခ ပေးရန်၊ ငါး အတွက် အပြီး ကောက်မည်။

### (ဒုတိယအဆင့်)

ထို .နောက် Advanced Diploma ကိုယ်တိုင်တက် သင်တန်း ကို ငါး လတက်ရန်။ ကျောင်းလခပေးရန်။ ကျောင်းလခကို ငါး အတွက် အပြီး ကောက်မည်။ ငါး တက်ရောက်ပြီးစီးသူများကို Diploma in Civil/ Mechanical / Electrical ပေးမည်။

### (တတိယအဆင့်)

ဒေါက်တာကျော်နိုင် သင်ကြားသော Advanced Diploma in Electromechanical and Construction Engineering နှင့် Specialized Program တို့ကို online (သို့ .) offline မှတက်ရောက်ပြီးစီး သော အထောက်အထားများ တင်ပြရန်။ (ကျောင်းလခပေးရန်မလို)

ငါး လကြာမှ လက်မှတ်ပေးမည်။

အထောက်အထား ပြည့်စုံသောအခါ Advanced Diploma in Civil/ Electrical /

Mechanical Engineering ပေးမည်။

### (B.tech ကိုယ်တိုင်တက်)

ဒုတိယအဆင့် ပြီးစီးသော ကျောင်းသားများသည် စတုတ္ထအဆင့်သို့ B.tech ကိုယ်တိုင်တက် သင်တန်းဆက်တက်နိုင်သည်။ သို့ .သော် တတိယ အဆင့် တွင် သတ်မှတ်ထားသော အထောက်အထားများ တင်ပြပြီးမှ B.tech / Advanced Diploma ပေးမည်။

### (BE ကိုယ်တိုင်တက်သင်တန်း )

### (စတုတ္ထ အဆင့်)

IQY တွင် BE Course ကို ငါး တက်ကာ ပြီးစီးပါက

(၁) Special Program နှင့် အတွေ့ အကြုံ တင်ပြကာ BE ပေးမည်။ ကိုယ်တိုင်တက် သင်တန်း ၆လ အတွက် သတ်မှတ်ကြေး ပေးရန်။ အပြီးကောက်မည်။

(၂) သာမန် Program ဖြစ်ပါက ကိုယ်တိုင်တက် ၆ လအပြီး သော အခါ B.tech သာပေးမည်။ ကိုယ်တိုင်တက်သင်တန်း ၆ လအတွက် သတ်မှတ်ကြေး ပေးရန်။ အပြီးကောက်မည်။

### (ပဉ္စမ အဆင့်)

BE ရရှိရန် အတွက် ဒေါက်တာကျော်နိုင်၏ BE သင်တန်း သင်ခန်းစာများကို General နှင့် Specialized ဘာသာများကို online + offline တက်ရောက်မှု အထောက်အထားတင်ပြရန်။ လိုအပ်သော internship project တင်ပြရန် လိုအပ်သည်။ အထက်ပါ အဆင့်များအတွက် ငွေကြေး ကောက်ခံမည် မဟုတ် သို့သော် တစ်နှစ် အချိန်ယူကာ တင်ပြရမည်။ ဘာသာတစ်ခုကို တစ်လတင်ပြရန်လိုသည်။ ဘာသာများ စုပေါင်းပြီး တစ်ခါထဲ ပြုပြီး တင်ပြမှုကို လက်ခံမည်မဟုတ်။ အနည်းဆုံး ၁ နှစ် ကြာမှသာ BE ထုတ်ပေးမည်။

### (Online သင်တန်းများ)

Advanced Diploma + BE Program ၏ study support site များ ၊ ဝင်ရောက် လေ့လာပြီး Assignment တင်ပြရန်။ Online အတွက် တစ်ခါတည်း ငွေပေးရန်။

တစ်လအတွက် အများဆုံး ၂ ဘာသာ အထိသာ Assignment တင်ခွင့် ပြု မည်။ တစ်ခါတည်း အကုန်လုံး စုပြု တင်ပြခြင်းကို လက်ခံမည်မဟုတ်ပေ။ တစ်ခါတည်း စုပြု တင်ပြမှုသည် အောက်ပါတိုင်းဖြစ်နေသည်။

(၁) အရင် ပြီးစီး သူတို့ ၏ Assingnment များကို ကူ ချခြင်း

(၂) သင်ခန်းစာ Video, lessons များ ၊ Power Point များကို မလေ့လာပဲ စာအုပ်မှ ကူ ချခြင်း ။

(၃) အုပ်စုလိုက် တစ်ဦးထံမှ တစ်ဦးကူးချခြင်း။

ထိုကဲ့သို့ ဖြစ်ရပ်ကြောင့် အချိန်တိုတောင်း စွာ ပြီးစီးပါက ဘွဲ့ သည် အဓိပ္ပာယ် ရှိမည် မဟုတ်ပေ။

ထို့ ကြောင့် IQY အရည်အချင်းကို ရယူ သူတို့ သည် IQY ထုံးတမ်းအတိုင်း စောဒက မတက်ပဲ လက်ခံတက်ရောက်မှသာ IQY Diploma , Bachelor တို့ ကို ပေးနိုင်မည်။ Academic Rule ကို ကိုယ်ရေးကိုယ်တာကြောင့် လျော့ချရန် မလိုအပ်ပေ။

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## BE/ B Tech Program ဝင်ခွင့် လိုအပ်ချက်

-AGTI သို့ မဟုတ် Diploma

Diploma တွင် ဘာသာအများစု ပေါင်းပါဝင်သော ဒီပလိုမာ ဖြစ်ရမည်။

အချို့ သော UK Diploma များသည် ဘာသာ တစ်ခု ပြီးပါက ပေးသည်။ ထိုကဲ့သို့ သော ဘာသာတစ်ခုနဲ့ ပေးသော ဒီပလိုမာ များတင်ပြပါက IQY Advanced Diploma မှ စတင်ရန် လိုသည်။

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### IQY ၏ Advanced Diploma နှင့် BE Programming များ၏ သင်ရိုးများ

IQY သင်ရိုး တွင် ပါဝင်သော ဘာသာအားလုံး အတွက် သင်မည့် ဆရာ မရှိသော ဘာသာများအတွက် ဒေါက်တာကျော်နိုင်က Facebook သင်ခန်းစာများ စီစဉ်နေသည်။

အဆိုပါ သင်ခန်းစာ video များကို IQY ရန်ကုန်၊ မန္တလေး ၊ ပြည် တို့ တွင် ဖြန့် ပေးမည်။

ကျောင်းသားများ အနေဖြင့် IQY သင်ရိုး ၊ ပါဘာသာ အားလုံးကို လေ့လာသင်ကြားပြီးစီးမှသာ IQY ဒီပလိုမာ ၊ ဒီဂရီ ပေးမည်။

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## Form 210 Mail order lesson video+E textbooks

Mail order lesson video+E textbooks

ယခုမှတ်ပုံတင်မှုသည် မြန်မာနိုင်ငံတော် အစိုးရမှတ်ပုံတင်မှု နှင့် မြန်မာနိုင်ငံတော် အစိုးရမှတ်ပုံတင်မှု ပုံစံတူညီပါသည်။  
မှတ်ပုံတင်မှု ပုံစံ

Name အမည်

First

Last

E mail Address အီးမေးလ်

Phone Number ဖုန်းအမှတ်

Home Address အိမ်လိပ်စာ

Course to enrol (တက်ရောက်မည့် သင်တန်းအမျိုးအစား)

Diploma in Electrical Engineering (THS)

Folder to send ဖုန်းမှတ်ပုံတင်မှု အမှတ်အသား

Electrical Video Part 1/Year 1 Semester 1+2 Certificate+Diploma 16.6GB

☐ Selected မှတ်ပုံတင်မှု အမှတ်

Selected  $\square\square\square\square\square\square\square \propto \square\square$

Selected  $\square\square\square\square\square\square\square \propto \square\square$

**Selected** □□□□□□□ ∞ □□

☒ Selected □□□□□□□ ∞ □□

Selected  ∞

Civil Video Part 1/All files except BE Civil Year 3+4+5 35.1GB

Selected  $\square\square\square\square\square\square\square\square \propto \square\square$

**Course to enrol** (တၢ်ရဲၤစးၣ် နီၤပိၤဝါၣ်သ့ၣ် တၢ်ခိၣ်)

**Professional Diploma in Civil Engineering Technology/ Year 3 BTech (Civil)**

Professional Diploma in Civil Engineering /Year 4 BE (Civil)

Civil Video Part 1/BE Civil Year 3+4+5 6.33GB

Civil Video Part 2 4.16GB

**Total 11GB**

Selected  ∞

**Course to enrol** (တၢ်ရဲၤစးၣ် နီၤသံဝေၣ် တၢ်ပူၤ)

**Diploma in Mechanical Engineering (THS)**

Folder to send               

**Mechanical Video Part 1/ Year 1 Semester 1+2 Certificate + Diploma 22.4GB**

Selected  ∞

**Course to enrol (တပ်မှ ရပ်စဲ ဘေးရန်များကို ဖယ်ရှားပစ်သော အားကိုးရမည့် အရာများ)**

## Advanced Diploma in Mechanical Engineering

Folder to send                              

**Mechanical Video Part 1/ Year 2 Advanced Diploma 24.7GB**

☒ Selected □□□□□□□∞□

**Course to enrol** (တၢ်ဂ့ၣ်ရၢၤစးတၢ်ရၢၤမံၤသီဖၢၣ်တၢ်သးတၢ်တၢ်)

Professional Diploma in Mechanical Engineering Technology/ Year 3 BTech (Mechanical)

Professional Diploma in Mechanical Engineering /Year 4 BE (Mechanical)

**Mechanical Video Part 1/ Year 3+4 34.5GB**

Mechanical Video Part 1/ BE Mechanical Yr 3+4+5 1GB

## Mechanical Video Part 2 6GB

**Total 42GB**

☒ Selected  ∞

**Course to enrol (တပ်မှ ရပ်စဲ ဘေးရန်များကို ကိုင်တွယ်ဆောင်ရွက်ရန် အားပေးသော အထောက်အကူ ပေးသည့် ကုမ္ပဏီ)**

## Diploma in Management

Folder to send ဝ ဇေ ဝး ဝု နီ မ ဝုဝု ယဝု ဝ ဝုဝု ဝ ဝး ဝ နီ

Management Video 17GB

☐ Selected ဝုဝုဝုဝုဝုဝု ယဝု

Course to enrol ( ဝုဝု ခ ဝုဝု ဝ ဝး ခ ဝုဝုဝုဝုဝုဝု ယဇေ ဝး ယဝု ဝ ဝုဝု )

Advanced Diploma in Management

Folder to send ဝ ဇေ ဝး ဝု နီ မ ဝုဝု ယဝု ဝ ဝုဝု ဝ ဝး ဝ နီ

Management Video 17GB

☐ Selected ဝုဝုဝုဝုဝုဝု ယဝု

Course to enrol ( ဝုဝု ခ ဝုဝု ဝ ဝး ခ ဝုဝုဝုဝုဝုဝု ယဇေ ဝး ယဝု ဝ ဝုဝု )

Professional Diploma in Management/Bachelor of Management

Management Video 17GB

☐ Selected ဝုဝုဝုဝုဝုဝု ယဝု

Course to enrol ( ဝုဝု ခ ဝုဝု ဝ ဝး ခ ဝုဝုဝုဝုဝုဝု ယဇေ ဝး ယဝု ဝ ဝုဝု )

Diploma in Information Technology

Folder to send ဝ ဇေ ဝး ဝု နီ မ ဝုဝု ယဝု ဝ ဝုဝု ဝ ဝး ဝ နီ

IT Video 7GB

☐ Selected ဝုဝုဝုဝုဝုဝု ယဝု

Course to enrol ( ဝုဝု ခ ဝုဝု ဝ ဝး ခ ဝုဝုဝုဝုဝုဝု ယဇေ ဝး ယဝု ဝ ဝုဝု )

Advanced Diploma in Information Technology

Folder to send ဝ ဇေ ဝး ဝု နီ မ ဝုဝု ယဝု ဝ ဝုဝု ဝ ဝး ဝ နီ

IT Video 7GB

☐ Selected ဝုဝုဝုဝုဝုဝု ယဝု

Course to enrol ( ဝုဝု ခ ဝုဝု ဝ ဝး ခ ဝုဝုဝုဝုဝုဝု ယဇေ ဝး ယဝု ဝ ဝုဝု )

Professional Diploma in Information Technology/Bachelor of Applied Science (Information Technology)

IT Video 7GB

☐ Selected ဝုဝုဝုဝုဝုဝု ယဝု

Daw HLA MYAT MON 23330 123300 437301 (KANBAWZA BANK LTD, SOKA2)

ဝုဝုဝုဝုဝုဝုဝုဝုဝု ဝုဝု ဝ ဝး ခ ဝုဝု ယဝု 23330 123300 437301 ဝ နီ ဝဇေ ဝး ဝ ဝုဝု;

Fees Payment to Back Account ( ဝ ဝုဝုဝု ဝ ဝး ခ ဝုဝု ယဝု ဝုဝုဝုဝုဝုဝုဝု ယဇေ ဝး ဝ ဝုဝု ယဝု ဝး )

No file chosen



SUBMIT



## THS/ITC/GTI-Equivalent /BE Bridging

AGTI Engineer Equivalent and BE Bridging Programs Enrolment for THS/AGTI who do not get the chance to attend AGTI/BE Programs. Please note that the advice given to you are just estimate. The teacher who will teach you can adjust it appropriately. ( Please note that only online attendance can be given fees reduction . Personal attendance needs to pay full fees)

PLEASE READ THE FOLLOWING REFUND POLICY BEFORE YOU ENROL

[www.highlightcomputer.com/iqyrefundpolicy.pdf](http://www.highlightcomputer.com/iqyrefundpolicy.pdf)

First

Last

**PGTI and fill your name only if you live in Pyay and want to attend Pyay Technical Institute Online (Former Pyay GTI)**

First

Last

### Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country / Region

**I have completed the following qualifications but I do not get the chance to attend GTI or BE Programs ( Please note that only online attendance can be given fees reduction . Personal attendance needs to pay full fees)**

☐ THS

☐ AGTI with 3 years work experiences. You can be exempted to do Advanced Diploma

- ☐ AGTI with attendance of engineering courses, you can be exempted to attend Advanced Diploma
- ☐ AGTI with degree, you can be exempted to attend the advanced diploma as well as some units in Professional Diploma Year 3
- ☐ AGTI/Engineering Diploma with minimum 7 Years experience (You can attend BE Special Program)

**I have completed the following qualifications but I do not get the chance to attend GTI or BE Programs**

- ☐ THS
- ☐ AGTI
- ☐ ITC
- ☐ Non Year 10 pass
- ☐ Engineering Diploma/ Certificate
- ☐ Other certificates/ diploma/ degree
- ☐ Experienced site worker

**I want to attend the following Advanced Diploma programs for THS Graduates.**

- ☐ I want to attend THS to Advanced Diploma in General Engineering & Drafting Course-Free personal attendance program (in Yangon Please note that places are limited) and you need to fill and submit the fees exemption form)
- ☐ I want to attend THS to Advanced Diploma in General Engineering & Drafting Course-Free Online attendance program subject to individual assessment
- ☐ I want to attend THS to Advanced Diploma in General Engineering & Drafting Course-Fees paying Online attendance program
- ☐ I want to attend THS to Advanced Diploma in General Engineering & Drafting Course-Fees paying personal attendance program
- ☐ I want to attend ITC to Advanced Diploma in General Engineering course by personal attendance in Yangon
- ☐ I want to attend ITC to Advanced Diploma in General Engineering course by personal attendance in Mandalay
- ☐ I want to attend ITC to Advanced Diploma in General Engineering course by personal attendance by online
- ☐ Adv Dip in Work Studies-Engineering

**I want to attend the following Advanced Diploma programs for THS / ITC Graduates/ and site workers without certificate**

- ☐ I want to attend THS /ITC to Advanced Diploma in General Engineering & Drafting Course-Free personal attendance program (Please note that places are limited)

- ☐ I want to attend THS/ITC to Advanced Diploma in General Engineering & Drafting Course-Free Online attendance program
- ☐ I want to attend THS/ITC to Advanced Diploma in General Engineering & Drafting Course-Fees paying personal attendance program
- ☐ I am living in Pyaw and want to attend free program at Pyaw Technical Institute Online Program (You must put PGTI after your name and provide Pyaw Address)

**I want to attend the following fees paying programs in Yangon (Based on AGTI /Other degree/Experience), fees can be reduced. ( Please note that only online attendance can be given fees reduction . Personal attendance needs to pay full fees)**

- ☐ I want to attend BE/ Professional Diploma in Electrical Engineering by personal attendance
- ☐ I want to attend Special BE/ Professional Diploma in Electrical Engineering by online
- ☐ I want to attend BE/ Professional Diploma in Electrical Engineering by online
- ☐ I want to attend BE/Professional Diploma in Civil Engineering by personal attendance
- ☐ I want to attend Special BE/Professional Diploma in Civil Engineering by online
- ☐ I want to attend BE/Professional Diploma in Civil Engineering by Online
- ☐ I want to attend BE/Professional Diploma in Mechanical Engineering by personal attendance
- ☐ I want to attend Special BE/Professional Diploma in Mechanical Engineering by Online
- ☐ I want to attend BE/Professional Diploma in Mechanical Engineering by Online
- ☐ I want to attend Advanced Diploma in Information Technology by personal attendance
- ☐ I want to attend Advanced Diploma in Information Technology by online
- ☐ I want to attend Advanced Diploma in Management by personal attendance
- ☐ I want to attend Advanced Diploma in Management by online
- ☐ I want to attend the other engineering diplomas by online
- ☐ I want to attend other engineering degrees by online
- ☐ I want to attend BWS-Engineering
- ☐ I want to attend BSc-Engg

**Other engineering by online**

- ☐ Chemical Engineering
- ☐ Metallurgy and Materials
- ☐ Petroleum and Mining
- ☐ Explosion Protection
- ☐ Marine

- ☐ Naval Architecture
- ☐ ICT Engineering
- ☐ Computer Network Engineering
- ☐ Telecommunication Engineering
- ☐ Architecture

**I want to attend the following fees paying programs in Mandalay (Based on AGTI /Other degree/Experience), fees can be reduced. ( Please note that only online attendance can be given fees reduction . Personal attendance needs to pay full fees)**

- ☐ I want to attend Professional Diploma in Electrical Engineering by personal attendance
- ☐ I want to attend Professional Diploma in Civil Engineering by personal attendance
- ☐ I want to attend Professional Diploma in Mechanical Engineering by personal attendance

**Preferred location of attendance**

- ☐ I want to attend the class at No 307(B) Thura 2 Street, 9 Ward OR No 704 Myitta Street, 12 Ward, South Okkalapa, Yangon
- ☐ I want to attend the class at No 33 Third Floor, Dagon Thiri Street, Kyaik-myaung, Tarmwe, (Near Thida Street) ,Yangon
- ☐ I want to attend the class at Room 404, Building 28, 8th Street, 94 Ward, B Group, Yuzana Garden City
- ☐ I want to attend the class at IQY Mandalay, Refer the address at <http://www.iqytechnicalcollege.com/contact1.htm>

**After Advanced Diploma in General Engineering and Drafting, I want to continue to attending some relevant units to get**

- ☐ Advanced Diploma in Electrical Engineering
- ☐ Advanced Diploma in Civil Engineering
- ☐ Advanced Diploma in Mechanical Engineering

**I want to continue the followings after my advanced diploma**

- ☐ Professional Diploma in Engineering/ Bachelor of Applied Engineering (Some fees may be charged)
- ☐ Membership of Singapore Institute of Engineering Technologists and ASEAN Engineering Technician/ ASEAN Engineering Technologists Registration
- ☐ Society of Professional Engineers-UK, Associate/ Member/ Professional Engineer-UK Registration

**As a student/ graduate of IQY Technical College, you can automatically become the Member/ Supporter of The Institution of Professional Engineers Myanmar**

- ☐ Supporter Member while attending the Diploma courses
- ☐ Graduate Member after completion of Diploma/ Advanced Diploma/ Professional Diploma
- ☐ Associate Member(AMIPEM) for AGTI/BTech/BE/Advanced Diploma/ Professional Diploma with 3 or more years experience
- ☐ Member (MIPEM) for AGTI/BTech/BE/ Advanced Diploma/ Professional Diploma with more than 7 years experience
- ☐ Chartered Engineer (CEng-Myanmar,MIPEM) for AGTI/BTech / Advanced Diploma to be assessed separately
- ☐ Chartered Professional Engineer (CPEng-Myanmar, MIPEM) for BE/ Professional Diploma to be assessed separately

**Industrial Training-Optional- Do you want to attend industrial training after completion of your course to receive Diploma/ Advanced Diploma/ Professional Diploma in Engineering Practice together with Diploma/ Advanced Diploma/ Professional Diploma in Engineering?**

- ☐ You need to pay the additional fees to the company which provides you industrial training.

**E mail address**

**Phone number**

**SUBMIT**



## THS/ITC/GTI-Equivalent /BE Bridging

AGTI Engineer Equivalent and BE Bridging Programs Enrolment for THS/AGTI who do not get the chance to attend AGTI/BE Programs. Please note that the advice given to you are just estimate. The teacher who will teach you can adjust it appropriately. ( Please note that only online attendance can be given fees reduction . Personal attendance needs to pay full fees)

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- ☐ I want to attend BE/Professional Diploma in Mechanical Engineering by personal attendance
- ☐ want to attend Special BE/Professional Diploma in Mechanical Engineering by Online
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- ☐ I want to attend Advanced Diploma in Management by online
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- ☐ Petroleum and Mining
- ☐ Explosion Protection
- ☐ Marine

- ☐ Naval Architecture
- ☐ ICT Engineering
- ☐ Computer Network Engineering
- ☐ Telecommunication Engineering
- ☐ Architecture

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- ☐ You need to pay the additional fees to the company which provides you industrial training.

**E mail address**

**Phone number**

**SUBMIT**



## Professional Dipoma in Engineering Practice

Professional Dipoma in Engineering Practice Enrolment Form for AGTI/BTech/BE Degrees holders

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### Name

First

Last

### Address

Street Address

Address Line 2

City

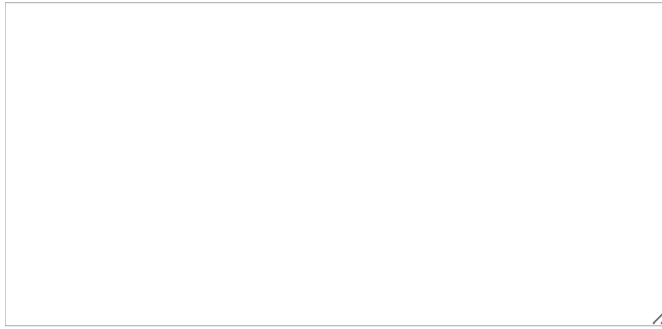
Postal / Zip Code

State / Province / Region

Country / Region

### E mail address

### Phone Number



**I want to attend the following course**

- ☐ Electrical Installation , Wiring and Site training -Prof Dip Engg Practice
- ☐ Professional Diploma in Structural Engineering/ MSc (Structure)
- ☐ Professional Diploma in Civil Engineering with Quantity Surveying
- ☐ Professional Diploma in Engineering and Management/ Bachelor of Engineering Management (66213)

**I want to attend the class at**

- ☐ No 307(B) Thura 2 Street, 9 Ward, or No 704 Myitta Street, 12 Ward, South Okkalapa, Yangon
- ☐ No 704 Myitta Street, 12 ward South Okkalapa, Yangon
- ☐ Room 404 Building 28, 8th Street, B Group, 94 Ward, Yuzana Garden City
- ☐ IQY Mandalay Refer the address at <http://www.iqytechnicalcollege.com/contact1.htm>
- ☐ IQY Online
- ☐ Yankin Affiliated Centre

**SUBMIT**







## Certificate of Competency

Electrical, Mechanical and Civil Engineering Works Practical Training

Study Materials &

Application for Certificate of Attendance & Certificate of Competency

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### Name

First

Last

### Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

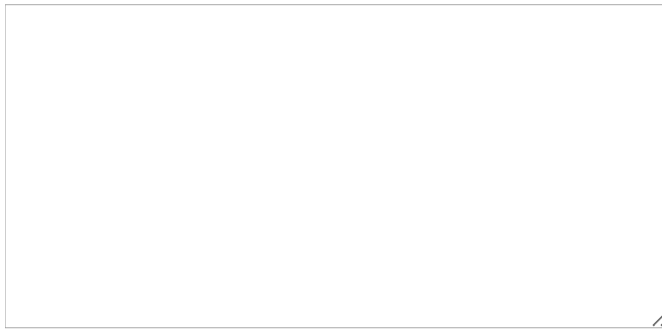
Country / Region

### Phone Number

### Email

Name of Course that you have attended





Date/ Time of the course

/  /    
MM DD YYYY

SUBMIT



## IQY-WEDO for Myanmar Training

### Voluntary Engineering Practical Experience Registration Forem

---

#### Name

First

Last

#### Email

#### Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country / Region

#### Phone

-

-

###

###

####

#### Qualifications

- ☐ BE
- ☐ BTech
- ☐ AGTI
- ☐ Other Engineering Diploma/ Certificate
- ☐ Still attending TU/GTC

I will attend theory training, obey the discipline of Welfare Evolvment and Development Organization during my volunteer engagement and will complete the task

☐ YES

☐ NO

**SUBMIT**



## Practical Training Application

This is the program consisting of three parts as described in [www.highlightcomputer.com/internship.htm](http://www.highlightcomputer.com/internship.htm).  
to get the practical experience and training.

.....

### Name

<input type="text"/>	<input type="text"/>
First	Last

### Address

<input type="text"/>	
Street Address	
<input type="text"/>	
Address Line 2	
<input type="text"/>	<input type="text"/>
City	State / Province / Region
<input type="text"/>	<input type="text" value="▼"/>
Postal / Zip Code	Country / Region

### Phone Number

<input type="text"/>
----------------------

### E mail address

**Qualifications (Degree + Name of University/ College)**

**Apprentice Engineer Certificate Number (Myanmar Engineering Council)**

**Part 1-Engineering Practical training at IQY**

- ☐ Diploma in Engineering Trades Practice
- ☐ Advanced Diploma in Engineering Trades Practice
- ☐ Professional Diploma in Engineering Internship (Only for BE/BTech degree holders)

- ☐ PC1-Certificate in Bricklaying and Masonary
- ☐ PC 2-Certificate in Plumbing
- ☐ PC 3-Certificate in Building Construction
- ☐ PC 4-Certificate in Gutter Construction
- ☐ PC 5-Certificate in Fitting & Machining
- ☐ PC 6-Certificate in Welding
- ☐ PC 7-Certificate in Engine Operation & Basic Servicing
- ☐ PC 8-Certificate in Air-conditioning & Refrigeration Basic Servicing
- ☐ PC 9-Certificate in Electrical Wiring
- ☐ PC 10-Certificate in Electrical Machine Winding
- ☐ PC 11-Certificate in Electrical Power Wiring & Switch Gear Installation
- ☐ PC15/H102) Certificate in Basic Electronics & Telecommunication
- ☐ PC 12-Certificate in Surveying. Quantity Surveying & Estimating
- ☐ PC 13-Certificate in Manufacturing Process Control & CNC
- ☐ PC 14-Certificate in Building Energy Efficiency

**If you have already learnt the courses at other colleges, please tick the box**

- ☐ PC 1-Certificate in Bricklaying & Masonry
- ☐ PC 2-Certificate in Plumbing
- ☐ PC 3-Certificate in Building Construction
- ☐ PC 4-Certificate in Gutter Construction
- ☐ PC 5-Certificate in Fitting & Machining
- ☐ PC 6-Certificate in Welding
- ☐ PC 7-Certificate in Engine Operation & Basic Servicing
- ☐ PC 8-Certificate in Air-conditioning & Refrigeration Basic Servicing
- ☐ PC 9-Certificate in Electrical Wiring
- ☐ PC 10-Certificate in Electrical Machine Winding
- ☐ PC 11-Certificate in Electrical Power Wiring & Switch Gear Installation
- ☐ PC15/H102) Certificate in Basic Electronics & Telecommunication
- ☐ PC 12-Certificate in Surveying. Quantity Surveying & Estimating
- ☐ PC 13-Certificate in Manufacturing Process Control & CNC
- ☐ PC 14-Certificate in Building Energy Efficiency

Practical Supervision <http://www.highlightcomputer.com/profdipenggpractice2.htm> supervised by PE/RSE (MEngC)

☐ I will pay the fees and enrol me

#### Advanced Training

##### Part 3- Engineering Practice (2 Years)

☐ I want to join Myanmar Civil Defence Engineers and work for voluntary organizations which are doing the engineering related construction tasks in Myanmar -I will do voluntarily work

☐ I will do my own engineering related jobs and have the mentoring assistance by PE/RSE (MEC)/ ASEAN/ Australian PE of IQY Group

☐ I will work for other company as a salaried staff but receive the mentoring assistance by PE/RSE (MEC)/ ASEAN/ Australian PE of IQY Group

After completion of required Internship service , I want to get Service Certification signed by FSIET for ASEAN Engineering Technologists/International PE for International Career

☐ Certify me after internship

**SUBMIT**



## IQY Technical College Personal Attendance

Application/Confirmation form to attend the programs of IQY Technical College/ Myanmar Vocational Training Collaboration Courses during December ( Incomplete forms will not be considered/ Those whom are confirmed will be contacted by e-mail and/or phone)

### Name

First	Last

### Phone

	-		-	
###		###		####

### Email

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### Multiple Choice

- ☐ Certificate/Diploma in Engineering Education for TU/GTC/Technical Teachers
- ☐ Certificate/Diploma in Teaching Practice for Year 5 to 10 Teachers/Voluntary School Teachers
- ☐ Certificate in Electrical Wiring Design Engineering
- ☐ Personal attendance for current IQY Diploma (Engineering/IT/Managemen)courses

### Multiple Choice

- ☐ No fees for Teaching/education Courses
- ☐ No fees for Electrical Wiring Design Course
- ☐ I have already paid the enrolment fees for IQY Diploma (Engineering/iT/Management)Courses

### Multiple Choice

- ☐ I have my own arrangement for accommodation and meal during the training periods



### Multiple Choice

- ☐ I can attend full sessions for free courses (Teaching/Education/Electrical Wiring)
- ☐ I can attend full sessions for IQY Diploma (Engineering/IT/Management) Courses

### Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country / Region

### Multiple Choice

- ☐ I have BE/BTech/AGTI /Certificate/Diploma in Electrical + Working in Electrical Industry to attend Electrical Wiring Course
- ☐ I have degree/diploma/Year 10 pass or Equivalent Qualification + Currently teaching in School/Voluntary Schools to attend Certificate/Diploma in Teaching Practice
- ☐ I am teaching at TU/GTC/Government or Private Technical College to attend Certificate in Vocational Education & Training/Diploma in Engineering Education
- ☐ I have already enrolled the Teacher Education Courses previously

**SUBMIT**



## Visiting Students Enrolment

This form is to be filled by the students who seek the academic advice from teachers of IQY Technical College but do not enrol IQY Courses. Please note that the students who are attending the courses in Australia can not use this form.

### Name

<input type="text"/>	<input type="text"/>
First	Last

### Email

### Phone Number

### Address

#### Street Address

#### Address Line 2

#### City

#### State / Province / Region

Postal / Zip Code

Country / Region

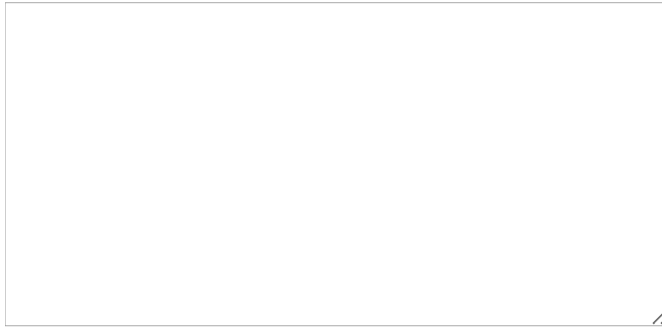
**Course and Institutions**

**Write your reason**

**Only IQY Students can receive intensive consultation and advice. Visiting students can only receive the advice for first time without enrolling IQY Courses**

- ☐ I will enrol IQY Course
- ☐ I will not enrol IQY Course

**If you will enrol IQY Course, write the name of the course**



**Are you attending the courses in Australia**

- ☐ Yes- You are not eligible for this service
- ☐ No

**SUBMIT**



## Expression of Interest Management -UK Recognized

I am interested in attending the Institute of Management Specialists (UK) recognized courses in IT and Management through St Clements University & provide my expression of interest, please provide me with further information.

Name

First

Last

Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country / Region

Email

Phone

 -  - 

###

###

####

SUBMIT

Powered by  EMF Online Survey

[Report Abuse](#)



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###

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## BE to Professional Diploma & SIET/PE(UK)

This form is utilised for BE graduates with experience to IQY Professional Diploma in Engineering to apply for Singapore Institute of Engineering Technologists Membership and Professional Engineer (UK) Registration through Society of Professional Engineers-UK.  
((Please note that the advice given to you are just estimate. The teacher who will teach you can adjust it appropriately.).

### Name

First

Last

### Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country / Region

### Attach BE Degree

Choose File

No file chosen

### Multiple Choice

- ☐ I have 3 Years Experience for Associate Member of Singapore Institute of Engineering Technologists and pay the fees
- ☐ I have 5 Years Experience for Associate Member of Singapore Institute of Engineering Technologists and pay the fees
- ☐ I have 5 Years Experience for Associate Member of Singapore Institute of Engineering Technologists/ ASEAN Engineering Technologists and Professional Engineer (UK) and pay the fees



### SIET MEMBERSHIP APPLICATION

<http://www.siet.org.sg/download/SIET-Application-form-Jan2013.pdf>

Copy the link, paste it into browser. Download, Fill and attach

No file chosen

#### Attach your Curriculum Vitae

No file chosen

#### Required qualification for Membership of Singapore Institute of Engineering Technologists

- ☐ Firstly I want to have IQY Professional Diploma in Electrical Engineering to apply for Membership of Singapore Institute of Engineering Technologists by paying conversion fees Ks 30000
- ☐ Firstly I want to have IQY Professional Diploma in Civil Engineering apply for Membership of Singapore Institute of Engineering Technologists by paying conversion fees Ks 30000
- ☐ Firstly I want to have IQY Professional Diploma in Mechanical Engineering to apply for Membership of Singapore Institute of Engineering Technologists by paying conversion fees Ks 30000

#### Required qualification for Membership of Singapore Institute of Engineering Technologists

- ☐ Firstly I want to have IQY Professional Diploma in Electrical Engineering to apply for Membership of Singapore Institute of Engineering Technologists by paying conversion fees Ks 30000+ Ks 20000 OR AUD200
- ☐ Firstly I want to have IQY Professional Diploma in Civil Engineering apply for Membership of Singapore Institute of Engineering Technologists by paying conversion fees Ks 30000+ Ks 20000 OR AUD200
- ☐ Firstly I want to have IQY Professional Diploma in Mechanical Engineering to apply for Membership of Singapore Institute of Engineering Technologists by paying conversion fees Ks 30000+ Ks 20000 OR AUD200
- ☐ Firstly I want to have IQY Professional Diploma in Other Engineering OR ICT to apply for Membership of Singapore Institute of Engineering Technologists by paying conversion fees Ks 30000+ Ks 20000 OR AUD 200

#### Multiple Choice

- ☐ I want to apply for Professional Engineers-UK and will attend the necessary training provided by Singapore Institute of Engineering Technologists and undergo the assessment
- ☐ I will pay the necessary fees

Download Professional Engineer (UK) Application form from [www.highlightcomputer.com/membership-form.pdf](http://www.highlightcomputer.com/membership-form.pdf) Copy the link, paste it into browser fill and attach it

No file chosen

**I have completed the followings to receive Advanced Diploma in Engineering Practice**

[www.highlightcomputer.com/profdipenggpractice.pdf](http://www.highlightcomputer.com/profdipenggpractice.pdf)

[www.highlightcomputer.com/profdipenggpractice.htm](http://www.highlightcomputer.com/profdipenggpractice.htm)

- ☐ ENG601- Engineering Studies (60 pt- for submission of AGTI/BTech/BE)
- ☐ ENG602-Engineering Applications (10 pt for submission of Curriculum Vitae for experienced engineers
- ☐ ENG603-Engineering Practicals (10 pt- Which can be exempted for minimum of 5 Years Engineering Experience)
- ☐ ENG604-Occupational Health & Safety Which can be exempted for minimum of 5 Years Engineering Experience)
- ☐ ENG605-Engineers Law
- ☐ ENG606-Engineering Ethics

**I have completed the followings to receive Professional Diploma in Engineering Practice**

[www.highlightcomputer.com/profdipenggpractice.pdf](http://www.highlightcomputer.com/profdipenggpractice.pdf)

[www.highlightcomputer.com/profdipenggpractice.htm](http://www.highlightcomputer.com/profdipenggpractice.htm)

- ☐ ENG607 -Leadership & Management Skills for Engineers (4 pt)
- ☐ ENG608-Business Skills for Engineers ( 6 pt)
- ☐ ENG609-Financial Management Skills for Engineers (3 pt)
- ☐ ENG610-Engineering Materials (4 pt)
- ☐ ENG611-Renewable Energy Engineering (10 Pt)
- ☐ ENG612-Risk Assessment Skills for Engineers (3 pt)

**Industrial Training-Optional- Do you want to attend industrial training after completion of your course to receive Diploma/ Advanced Diploma/ Professional Diploma in Engineering Practice together with Diploma/ Advanced Diploma/ Professional Diploma in Engineering?**

- ☐ Yes. You need to pay additional fees to the company which provides you industrial training

**E mail address**

**Phone number**

SUBMIT



- CERTIFICATE IN LABORATORY WATER OPERATIONS (MVTC204)-Only online
- CERTIFICATE IN COMMUNITY SERVICE (MVTC205)(FOODS SERVICE/HEALTH SERVICES/LIBRARY SERVICES/AGE CARE/CHILD CARE-Only online
- CERTIFICATE IN PROPERTIES SERVICES (MVTC206)-Only online
- CERTIFICATE IN PERFORMING (MVTC207)-Only online
- CERTIFICATE IN PUBLIC SAFETY (MVTC208)-Only online
- CERTIFICATE IN LOGISTICS (MVTC209)-Only online
- CERTIFICATE IN INFORMATION TECHNOLOGY (MVTC210)-Only online
- CERTIFICATE IN ELECTRICAL TRADE THEORY (MVTC212)-Online or Physical Attendance
- MVTC13-PC 1-Certificate in Bricklaying & Masonry
- MVTC13-PC 2-Certificate in Plumbing
- MVTC13-PC 3-Certificate in Building Construction
- MVTC13-PC 4-Certificate in Gutter Construction
- MVTC13-PC 5-Certificate in Fitting & Machining
- MVTC13-PC 6-Certificate in Welding
- MVTC13-PC 7-Certificate in Engine Operation & Basic Servicing
- MVTC13-PC 8-Certificate in Air-conditioning & Refrigeration Basic Servicing
- MVTC13-PC 9-Certificate in Electrical Wiring
- MVTC13-PC 10-Certificate in Electrical Machine Winding
- PC 14-Certificate in Building Energy Efficiency
- CERTIFICATE IN BASIC EDUCATION Year 9 to 12 (MVTC14)-Online or Physical Attendance
- MVTC11-Certificate in Engineering Production-Only online
- MVTC301401501601 Rural Development Engineering-Only Online
- MVTC501 Advanced Diploma in Rural Development Engineering (Free programs for the people who are doing voluntary rural development works)
- MVTC601 Professional Diploma in Rural Development Engineering (Free programs for the people who are doing voluntary rural development works)+BE/BSc(Rural Development Engineering)
- Diploma in Humanities Studies
- Advanced Diploma in Humanities Studies
- Professional Diploma in Humanities Studies+Bachelor of Humanities Studies

**MVTC13 PC1 to PC10** and **MVTC212 + MVTC14** can be attended by the  
 MVTC13 PC1 to PC10 courses+MVTC212+MVTC14 can be attended by the

following options

- ☐ လူ့စံပြဝန်ထမ်းချုပ်ရုံးမှ ဝန်ထမ်းများသည် အောက်ပါအတိုင်း တက်ရောက်နိုင်မည်။  
OR No 704 Myitta Street, 12 Ward, South Okkalapa, Yangon
- ☐ လူ့စံပြဝန်ထမ်းချုပ်ရုံးမှ ဝန်ထမ်းများသည် အောက်ပါအတိုင်း တက်ရောက်နိုင်မည်။  
I want to attend the class at No 33 Third Floor, Dagonthiri Street (Near Thida Street) , Kyauk-myaung, Tarmwe, Yangon
- ☐ လူ့စံပြဝန်ထမ်းချုပ်ရုံးမှ ဝန်ထမ်းများသည် အောက်ပါအတိုင်း တက်ရောက်နိုင်မည်။  
I want to attend the class at Room 404, Building 28, 8th Street, (B Group) 94 Ward, Yuzana Garden City
- ☐ လူ့စံပြဝန်ထမ်းချုပ်ရုံးမှ ဝန်ထမ်းများသည် အောက်ပါအတိုင်း တက်ရောက်နိုင်မည်။  
I want to attend IQY Mandalay, Refer the address at  
<http://www.iqytechnicalcollege.com/contact1.htm>
- ☐ မြို့နယ်လူမှုစံပြဝန်ထမ်းချုပ်ရုံးမှ ဝန်ထမ်းများသည် အောက်ပါအတိုင်း တက်ရောက်နိုင်မည်။  
I want to attend the course by online and provide the training at my township

### Fees Option

- ☐ ဓမ္မေ ကုန္တိ ဝဂ္ဂဝ ပဉ္စပိနာ အပ္ပိကော အဗျတ္တိသန္တာရံ စမ္ဘူတေ နှိ ဝဂ္ဂဝ ပဉ္စပိနာ အပ္ပိကော အလုပု လုပု/အခမဲ့ သံဃာ တပည့် တစ်ပါး ဖြစ်၍ I join the organization as volunteer and request the free program
- ☐ ပဉ္စပိနာ သံဃာ အဗျတ္တိသန္တာရံ ကုန်တေ အကော ဝဂ္ဂဝ ပဉ္စပိနာ အပ္ပိကော မဟီ။ I will deposit the fees into Bank Account

အနုပညာဝါသနာရှိသူများအတွက် အသိပညာများကို မြှင့်တင်ပေးရန် ဖွဲ့စည်းတည်ထောင်ထားသော အဖွဲ့အစည်းများကို ဖော်ပြပါ။

- ☐ I want to continue Diploma/ Advanced Diploma/ Professional Diploma/ ASEAN Engineering Technologists/ Professional Engineer (UK) Qualifications
- ☐ I have already possessed Diploma/ AGTI/BTech/BE and want to get practical training and experience
- ☐ I have already possessed Diploma/ AGTI/BTech/BE and want to take part in Internship
- ☐ I have already possessed Diploma/ AGTI/BTech/BE and want to study the different engineering discipline

ကျွန်ုပ်တို့သည် အောက်ပါ ဝိဇ္ဇာဘွဲ့နှင့် ဝိဇ္ဇာဘွဲ့ရရှိသူများသည် I want to enrol the following Diploma and Bachelors Degree Programs

- 1.Diploma/Advanced Diploma/Bachelor of Work Studies in Work Studies-Sewing Garment
- 2.Diploma/Advanced Diploma/Bachelor of Work Studies in Cooking
- 3.Diploma/Advanced Diploma/Bachelor of Work Studies in Childcare
- 4.Diploma/Advanced Diploma/Bachelor of Work Studies in Aged Care/Nursing
- 5.Diploma/Advanced Diploma/Bachelor of Work Studies in Waiter/ Reception / Tourism

- 6.Diploma/Advanced Diploma/Bachelor of Work Studies in Security လုံခြုံရေး အစောင့်အရှောက်
- 7.Diploma/Advanced Diploma/Bachelor of Work Studies in Logistics သယ်ယူပို့ဆောင်ရေး
- 8.Diploma/Advanced Diploma/Bachelor of Work Studies in Agriculture စိုက်ပျိုးရေး
- 9.Diploma/Advanced Diploma/Bachelor of Work Studies in Animal Handling & Live Stock
- 10.Diploma/Advanced Diploma/Bachelor of Work Studies in Shop Attendant & Marketing ရောင်းချ
- 11.Diploma/Advanced Diploma/Bachelor of Work Studies in Handyman and Asset Maintenance
- 12.Diploma/Advanced Diploma/Bachelor of Work Studies in Dancer မှော်ရိုးရကန်
- 13.Diploma/Advanced Diploma/Bachelor of Work Studies in Laundry ဆံပင်လျှော်ခြင်း
- 14.Diploma/Advanced Diploma/Bachelor of Work Studies in Hair Dressing ဆံပင်လှူခြင်း
- 15.Diploma/Advanced Diploma/Bachelor of Work Studies in Water Operation ရေပေးစနစ်
- 16.Diploma/Advanced Diploma/Bachelor of Work Studies in Store သင်္ချာ
- 17.Diploma/Advanced Diploma/Bachelor of Work Studies in Cleaner သန့်ရှင်းရေး
- 18.Diploma/Advanced Diploma/Bachelor of Work Studies in Factory စက်ရုံ
- 19.Diploma/Advanced Diploma/Bachelor of Work Studies in Maintenance ပြုစုရေး
- 20.Diploma/Advanced Diploma/Bachelor of Work Studies in Printing ပုံနှိပ်ရေး
- 21.Diploma/Advanced Diploma/Bachelor of Work Studies in Postal Worker/Library စာပို့ဆောင်ရေး
- 22.Diploma/Advanced Diploma/Bachelor of Work Studies in Teachers Aides ပညာရေး
- 23.Diploma/Advanced Diploma/Bachelor of Work Studies in Production and Industry ကုန်ထုတ်လုပ်ရေး
- 24.Diploma/Advanced Diploma/Bachelor of Work Studies in Visual Arts and Crafts လက်မှုပညာ
- 25.Diploma/Advanced Diploma/Bachelor of Work Studies in Screen Media သတင်းအချက်အလက်

အထက်ဖော်ပြပါ လူမှုဝန်ထမ်းလေ့လာရေး + ပညာရေး + ကုန်ထုတ်လုပ်ရေး အစောင့်အရှောက် နှင့် အခြား လူမှုဝန်ထမ်းလေ့လာရေး + ပညာရေး + ကုန်ထုတ်လုပ်ရေး အစောင့်အရှောက် အသုံးပြုရန် လိုအပ်သော လူမှုဝန်ထမ်းလေ့လာရေး + ပညာရေး + ကုန်ထုတ်လုပ်ရေး အစောင့်အရှောက် လူမှုဝန်ထမ်းလေ့လာရေး + ပညာရေး + ကုန်ထုတ်လုပ်ရေး အစောင့်အရှောက်

**want to enrol the FREE PROGRAMS for the following Humanities Studies+Education+Rural Development Engineering Program**

- ☐ Diploma in Humanities Studies
- ☐ Advanced Diploma in Humanities Studies
- ☐ Professional Diploma in Humanities Studies
- ☐ BEd(School and Vocational Education)
- ☐ BSc/BE(Rural Development Engineering)
- ☐ BWS(Rural Development Engineering)

**Bachelor of Work** **After completion of Bachelor of Work Studies, I want to**

- ☐ Pay the degree conversion fees to St Clements University to receive Bachelors degree in Science-Engineering
- ☐ Pay the fees to attend BTech
- ☐ Pay the fees to attend BE
- ☐ Pay the fees to attend BMgt
- ☐ Pay the fees to attend BAppSc(IT)

**Professional** **After completion of Professional Diploma in Humanities Studies, I want to**

- ☐ Pay the degree conversion fees to St Clements University to receive Bachelors degree i n Humanities Studies
- ☐ Pay the fees to attend St Clements Universit's Masters Degree in Humanities
- ☐ Pay the fees to attend St Clements Universit's Doctoral Degree in Humanities

**After completion of Professional Diploma in Rural Development Engineering, I want to**

- ☐ Pay the degree conversion fees to St Clements University to receive Bachelors degree in Rural Development Engineering

**E mail address**

**Phone number**



အကယ်၍ သင်သည် နိုင်ငံခြားမှ ပြန်လည်ရောက်ရှိလာသော မြန်မာလုပ်သမား ဖြစ်ပါက သင်၏ နိုင်ငံခြား အလုပ်ရှင်၏ နာမည်ကို ဖြည့်စွက်ပါ။ If you are Myanmar Worker returned from overseas, write the name of your overseas employer.

သင်သည် Covid 19 စစ်ဆေးမှုတွင် ပါဝင်ဆောင်ရွက်သည့် လူမှုအဖွဲ့အစည်း၏ နာမည်နှင့် ရှိနေသည့် နေရာကို ဖြည့်စွက်ပါ။ If you are Covid 19 Volunteer, write the name of organization where you volunteered and the place

SUBMIT



## Year 9 to 12 E Learning

### Year 9 to 12 E Learning Enrolment Form

---

#### Name

First

Last

#### Phone Number

#### Email

#### Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country / Region

#### I want to enrol

- ☐ Year 9
- ☐ Year 10
- ☐ Year 11
- ☐ Year 12
- ☐ Vocational Training Course

SUBMIT

## UPDATED CONTACT

Click the following link to assess it

<http://highlightcomputergroup4.zoomshare.com/files/iqy/contactupdate.htm>

OR

<http://iqycontactupdate.blogspot.com.au/>

IQY Technical College ဟာ British West Indies မှာကုမ္ပဏီမှတ်ပုံတင်ထားပေမဲ့  
Cambodia, Switzerland, Niue, Somalia, Liberia, စတဲ့နိုင်ငံတွေမှာတရားဝင်မှတ်ပုံ  
တင်ထားတဲ့ St Clements University ရဲ့ ကျောင်းခွဲ St Clements University Myanmar  
College အဖြစ်လဲပညာ ပို့ချ ပါတယ်။

IQY Technical College ဟာ မြန်မာနိုင်ငံပြင်ပနေ Director နဲ့ Program Leader တွေရဲ့ Lesson, Lecture, Video စတဲ့ Online တင်ထားတာတွေကို ကမ္ဘာအနှံ့နဲ့ မြန်မာပြည်တွင်းကကျောင်းသားတွေ Online နဲ့ လေ့လာသင်ယူနိုင်သလိုရန်ကုန်၊မန္တလေးနဲ့ မြန်မာပြည်အနှံ့ မှာစုစည်းထားတဲ့ဆရာတွေကပညာရေးအုပ်စုတွေဖွဲ့ စည်းပြီးကိုယ်တိုင်တက်သင်တန်းတွေဖွင့်လှစ်သင်ကြားပါတယ်။ ဒီနည်းနဲ့ နိုင်ငံခြားပညာကိုမြန်မာကျောင်းသားတွေဈေးသက်သက်သာသာနဲ့ သင်ယူလို့ ရသလို မြန်မာဆရာတွေကို Capacity Development/ Knowledge Sharing လုပ်ပါတယ်။

အဲဒါဟာမြန်မာအင်ဂျင်နီယာနဲ့ ပညာရေးတိုးတက်ရေးကိုလက်တွေ့ အကောင်အထည်ဖော်လုပ်ဆောင်ပေးတာဖြစ်ပါတယ်။

IQY Technical College is an online learning system covering from Basic and Vocational education to postgraduate levels managed by the College Director and Program Leaders who are residing outside Myanmar.

IQY-St Clements Education Groups are organized in Myanmar to assist the students to study the online lessons at various physical locations inside Myanmar.

IQY Technical College Management which is based outside Myanmar delegates the operational tasks to the recruited staff inside Myanmar.

The students can also study the courses which are directly managed by the Program Leaders who are residing outside Myanmar by online study mode.

## ORIGINAL CONTACT

### Main Administration Office

### [IQY Technical College Academic Management System](#)

Dr Hla Myat Mon (General Manager)-**Phone:** **Australia** 61-424533344

Myanmar 09893974117 (Viber)+ 09893974117

Daw Nang Mya San (Trainee Manager) –Phone- 09250480606.

PO BOX 227 Marrickville, NSW 1475

Sydney, Australia

E mail

[iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

**IQY –St Clements Education Group**

(Yangon)

**E-Learning / Tutoring / Trade Training Centre Addresses**

South Okkalapa

Address 1 (Yangon Head Quarter of IQY Technical College and IPEM Technological University)

အမှတ်ဥရ (ခ) သူရ(၂)လမ်း၊ အမှတ်ဇရပ်ကွက်တောင်ဥက္ကလာပ၊

(သစ္စာလမ်း၊ ပုဏ္ဏမိမှတ်တိုင်အနီး)

No 307 (B) Thura 2 Street, 9 Ward, South Okkalapa Township, Yangon

**Website**

[www.iqytechnicalcollege.com/thurastcampus.htm](http://www.iqytechnicalcollege.com/thurastcampus.htm)

Please See MAP-

[www.iqytechnicalcollege.com/IQYIPEMTUHQ.pdf](http://www.iqytechnicalcollege.com/IQYIPEMTUHQ.pdf)

[www.highlightcomputer.com/iqymap.pdf](http://www.highlightcomputer.com/iqymap.pdf)

www.i

**Address 2 (Operation Address of IQY Technical College and IPEM Technological University)**

No 704 Myitta Road, 12 Ward , South Okkalapa Township, Yangon

**Website**

[www.iqytechnicalcollege.com/myittastcampus.htm](http://www.iqytechnicalcollege.com/myittastcampus.htm)

**Contact:**

**E mail**

iqytechnicalcollege@gmail.com

**Contact: Dr Thwin Thu Lynn Mobile: 09785048872**

**IQY –St Clements Education Group**

**Special Training & Resources Centre / E Library**

**Yazana Garden City, Dagon Seik-Kan Township**

Building 28, Room 404 , 5<sup>th</sup> Floor, 8<sup>th</sup> Street, Group (B), 94 Ward,  
Yuzana Garden City, Dagon Seik-Kan Township

**Website**

[www.iqytechnicalcollege.com/yuzanacampus.htm](http://www.iqytechnicalcollege.com/yuzanacampus.htm)

**COMPUTER TRAINING + COMPUTER UNIVERSITIES COURSES STUDY SUPPORT**

**IT Training Kyauk-Myaung Centre Address**

No 33 , Third Floor Left, Dagon Thiri Street, Kyauk-myaung, Tarmwe Township, Yangon

AND

No 307 (B) Thura 2 Street, 9 Ward, South Okkalapa Township, Yangon

**IQY –St Clements Education Group**

(Mandalay)

Address

(1)

သိပ္ပံလမ်းနှင့်လမ်းထောင့်၊မန္တလားသီရိဘောလုံးကွင်းမြောက်ဘက်၊  
မန္တလေးမြို့။

Corner of Teikpan Street and 68th Street, Mandalar Thiri Football Field North  
Mandalay

Location contact- Daw Yamin Thu—Mobile: 09670759700

**Website**

[www.iqytechnicalcollege.com/mandalay.htm](http://www.iqytechnicalcollege.com/mandalay.htm)



## Contact

Manager--Daw Yamin Thu—Mobile: 09670759700

**yaminthu.5813@gmail.com,**

Daw Thandar Win—Mobile: 0943063431

E mail- **thandarwin16384@gmail.com**

### Overseas Contact

iqytechnicalcollege@gmail.com

Phone: 61-424533344

**PO BOX 227, Marrickville, NSW 1475, Sydney, Australia**

**Affiliated Training Centres / Colleges/ SchoolsAddresses**

**Engineering Software Applications + English Language Training**

IQY Online

Daw Yamin Thu—Mobile: 09670759700

**yaminthu.5813@gmail.com,**

Daw Thandar Win—Mobile: 0943063431

E mail- **thandarwin16384@gmail.com**

## Contact

iqytechnicalcollege@gmail.com

**IQY 's affiliated education group**

## **Pyay Technical Institute Campuses & Contacts** **(IQY Technical College Pyay)**

(အမှတ်၁၆/၁၉၃)၁၁လမ်း၊နဝင်းကွက်သစ်၊ပြည်မြို့

No.(16/193), 11st Street, Nawin New Qtr, Pyay

**U Htin Aung Shine**

Phone : 09250306242, 09779945508, 05325756

**Daw Hnin Hnin Ou**

Phone 09423718117/ 09796995667/ 09950345717

### **IQY Technical University (Turkey)**

Professor Dr. Erdal Fırat | General Manager

Erdal Fırat Engineering High Technology Ltd

Address:

Eşrefpaşa Cad. No:391-393 D:3 35270 Konak, İZMİR  
Republic of Turkey

## **IQY Technical University (Oman)**

Dr. Mohammad Israr  
Professor, Department of Mechanical Engineering  
Sur University College  
Behind Ministry of Health Hospital  
Sur, Sultanate of Oman  
Post Box-440, Postal Code-411  
+968-91256765,+91-97242-00119 [Whatsapp]  
+91-79873-98432, +91-94259-03147

## **IQY Technical College(Fiji)**

## **STC Technilological University(Fiji)**

Manikam Goundar  
Manager and Authorized Agent  
P O BOX 913,LABASA .  
FIJI

## **Legal Knowledge Sharing Group (LKSG)**

**Contact**

Thwin Ko Ko Latt (Mandalay)  
Phone-09-967879123 09-252802402

## UPDATED CONTACT

Click the following link to assess it

<http://highlightcomputergroup4.zoomshare.com/files/iqy/contactupdate.htm>

OR

<http://iqycontactupdate.blogspot.com.au/>

IQY Technical College ဟာ British West Indies မှာကုမ္ပဏီမှတ်ပုံတင်ထားပေမဲ့  
Cambodia, Switzerland, Niue, Somalia, Liberia, စတဲ့နိုင်ငံတွေမှာတရားဝင်မှတ်ပုံ  
တင်ထားတဲ့ St Clements University ရဲ့ ကျောင်းခွဲ St Clements University Myanmar  
College အဖြစ်လဲပညာ ပို့ချ ပါတယ်။

IQY Technical College ဟာ မြန်မာနိုင်ငံပြင်ပနေ Director နဲ့ Program Leader တွေရဲ့ Lesson, Lecture, Video စတဲ့ Online တင်ထားတာတွေကို ကမ္ဘာအနှံ့နဲ့ မြန်မာပြည်တွင်းကကျောင်းသားတွေ Online နဲ့ လေ့လာသင်ယူနိုင်သလိုရန်ကုန်၊မန္တလေးနဲ့ မြန်မာပြည်အနှံ့ မှာစုစည်းထားတဲ့ဆရာတွေကပညာရေးအုပ်စုတွေဖွဲ့ စည်းပြီးကိုယ်တိုင်တက်သင်တန်းတွေဖွင့်လှစ်သင်ကြားပါတယ်။ ဒီနည်းနဲ့ နိုင်ငံခြားပညာကိုမြန်မာကျောင်းသားတွေဈေးသက်သက်သာသာနဲ့ သင်ယူလို့ ရသလို မြန်မာဆရာတွေကို Capacity Development/ Knowledge Sharing လုပ်ပါတယ်။

အဲဒါဟာမြန်မာအင်ဂျင်နီယာနဲ့ ပညာရေးတိုးတက်ရေးကိုလက်တွေ့ အကောင်အထည်ဖော်လုပ်ဆောင်ပေးတာဖြစ်ပါတယ်။

IQY Technical College is an online learning system covering from Basic and Vocational education to postgraduate levels managed by the College Director and Program Leaders who are residing outside Myanmar.

IQY-St Clements Education Groups are organized in Myanmar to assist the students to study the online lessons at various physical locations inside Myanmar.

IQY Technical College Management which is based outside Myanmar delegates the operational tasks to the recruited staff inside Myanmar.

The students can also study the courses which are directly managed by the Program Leaders who are residing outside Myanmar by online study mode.

## ORIGINAL CONTACT

### Main Administration Office

### [IQY Technical College Academic Management System](#)

Dr Hla Myat Mon (General Manager)-**Phone:** **Australia** 61-424533344

Myanmar 09893974117 (Viber)+ 09893974117

Daw Nang Mya San (Trainee Manager) –Phone- 09250480606.

PO BOX 227 Marrickville, NSW 1475

Sydney, Australia

E mail

[iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

**IQY –St Clements Education Group**

(Yangon)

**E-Learning / Tutoring / Trade Training Centre Addresses**

South Okkalapa

Address 1 (Yangon Head Quarter of IQY Technical College and IPEM Technological University)

အမှတ်ဥရ (ခ) သူရ(၂)လမ်း၊ အမှတ်ဇရပ်ကွက်တောင်ဥက္ကလာပ၊

(သစ္စာလမ်း၊ ပုဏ္ဏမိမှတ်တိုင်အနီး)

No 307 (B) Thura 2 Street, 9 Ward, South Okkalapa Township, Yangon

**Website**

[www.iqytechnicalcollege.com/thurastcampus.htm](http://www.iqytechnicalcollege.com/thurastcampus.htm)

Please See MAP-

[www.iqytechnicalcollege.com/IQYIPEMTUHQ.pdf](http://www.iqytechnicalcollege.com/IQYIPEMTUHQ.pdf)

[www.highlightcomputer.com/iqymap.pdf](http://www.highlightcomputer.com/iqymap.pdf)

www.i

**Address 2 (Operation Address of IQY Technical College and IPEM Technological University)**

No 704 Myitta Road, 12 Ward , South Okkalapa Township, Yangon

**Website**

[www.iqytechnicalcollege.com/myittastcampus.htm](http://www.iqytechnicalcollege.com/myittastcampus.htm)

**Contact:**

**E mail**

iqytechnicalcollege@gmail.com

**Contact: Dr Thwin Thu Lynn Mobile: 09785048872**

**IQY –St Clements Education Group**

**Special Training & Resources Centre / E Library**

**Yazana Garden City, Dagon Seik-Kan Township**

Building 28, Room 404 , 5<sup>th</sup> Floor, 8<sup>th</sup> Street, Group (B), 94 Ward,  
Yuzana Garden City, Dagon Seik-Kan Township

**Website**



[www.iqytechnicalcollege.com/yuzanacampus.htm](http://www.iqytechnicalcollege.com/yuzanacampus.htm)

**COMPUTER TRAINING + COMPUTER UNIVERSITIES COURSES STUDY SUPPORT**

**IT Training Kyauk-Myaung Centre Address**

No 33 , Third Floor Left, Dagon Thiri Street, Kyauk-myaung, Tarmwe Township, Yangon

AND

No 307 (B) Thura 2 Street, 9 Ward, South Okkalapa Township, Yangon

**IQY –St Clements Education Group**

(Mandalay)

Address

(1)

သိပ္ပံလမ်းနှင့်လမ်းထောင့်၊မန္တလာသီရိဘောလုံးကွင်းမြောက်ဘက်၊  
မန္တလေးမြို့။

Corner of Teikpan Street and 68th Street, Mandalar Thiri Football Field North  
Mandalay

Location contact- Daw Yamin Thu—Mobile: 09670759700

**Website**

[www.iqytechnicalcollege.com/mandalay.htm](http://www.iqytechnicalcollege.com/mandalay.htm)

## Contact

Manager--Daw Yamin Thu—Mobile: 09670759700

**yaminthu.5813@gmail.com,**

Daw Thandar Win—Mobile: 0943063431

E mail- **thandarwin16384@gmail.com**

### Overseas Contact

iqytechnicalcollege@gmail.com

Phone: 61-424533344

**PO BOX 227, Marrickville, NSW 1475, Sydney, Australia**

**Affiliated Training Centres / Colleges/ SchoolsAddresses**

**Engineering Software Applications + English Language Training**

IQY Online

Daw Yamin Thu—Mobile: 09670759700

**yaminthu.5813@gmail.com,**

Daw Thandar Win—Mobile: 0943063431

E mail- **thandarwin16384@gmail.com**

## Contact

iqytechnicalcollege@gmail.com

**IQY 's affiliated education group**

## **Pyay Technical Institute Campuses & Contacts** **(IQY Technical College Pyay)**

(အမှတ်၁၆/၁၉၃)၁၁လမ်း၊နဝင်းကွက်သစ်၊ပြည်မြို့

No.(16/193), 11st Street, Nawin New Qtr, Pyay

**U Htin Aung Shine**

Phone : 09250306242, 09779945508, 05325756

**Daw Hnin Hnin Ou**

Phone 09423718117/ 09796995667/ 09950345717

### **IQY Technical University (Turkey)**

Professor Dr. Erdal Fırat | General Manager

Erdal Fırat Engineering High Technology Ltd

Address:

Eşrefpaşa Cad. No:391-393 D:3 35270 Konak, İZMİR  
Republic of Turkey

## **IQY Technical University (Oman)**

Dr. Mohammad Israr  
Professor, Department of Mechanical Engineering  
Sur University College  
Behind Ministry of Health Hospital  
Sur, Sultanate of Oman  
Post Box-440, Postal Code-411  
+968-91256765,+91-97242-00119 [Whatsapp]  
+91-79873-98432, +91-94259-03147

## **IQY Technical College(Fiji)**

## **STC Technilogical University(Fiji)**

Manikam Goundar  
Manager and Authorized Agent  
P O BOX 913,LABASA .  
FIJI

## **Legal Knowledge Sharing Group (LKSG)**

**Contact**

Thwin Ko Ko Latt (Mandalay)  
Phone-09-967879123 09-252802402

# IQY Technical College's List of Graduates

## LIST OF GRADUATES FROM 2018

To see the list of graduates from 2018, click the following link

[www.iqytechnicalcollege.com/graduates update.htm](http://www.iqytechnicalcollege.com/graduates%20update.htm)

OR

[www.iqygraduates.blogspot.com](http://www.iqygraduates.blogspot.com)

## LIST OF GRADUATES UNTIL 2017

[www.iqytechnicalcollege.com/graduates2017](http://www.iqytechnicalcollege.com/graduates2017)

- In the past, the students from Myanmar attended overseas educational institutions.
- IQY Technical College which composes of Myanmar professionals who possess the international education and professional experiences is the **first** Myanmar based educational institution that teaches the international students from other countries by applying e-Learning methodology in line with international educational standards.

The students from the following countries have attended / are attending IQY Technical College (International) Courses by e-Learning.

- Myanmar
- Australia
- Niue Island
- New Zealand
- Fiji
- Nigeria
- Malaysia
- Iran
- India
- Pakistan
- Thailand
- Botswana
- Qatar

- Mexico
- Cambodia
- Turkey

## Authorized Training Centre of Singapore Institute of Engineering Technologists

<http://www.iqytechnicalcollege.com/sietatc.htm>

### Initial Accreditation and Registration (2014 to 2019)

<http://www.highlightcomputer.com/SIETATC.pdf>

### Current Registration Information

**IQY-SIET-AFEO**

[IQY Professional Diploma to AET](#)

[IQY Advanced Diploma to AT](#)

[www.iqytechnicalcollege.com/IQYSIETRecognition.pdf](http://www.iqytechnicalcollege.com/IQYSIETRecognition.pdf)

<http://highlightcomputergroup4.zoomshare.com/files/iqy/sietatc.htm>

## Affiliated Training Centre of The Society of Professional Engineers (UK and International)

[www.iqytechnicalcollege.com/SPECertificateIQY.pdf](http://www.iqytechnicalcollege.com/SPECertificateIQY.pdf)

The Singapore Institute of Engineering Technologists (SIET) being the Professional Body for Engineering Technologists is a multi-disciplined learned establishment registered in Singapore since 1980 under the Societies Act [Singapore Government Gazette Notification No: 3310].

<https://www.facebook.com/sietorgsg/>



Search UEN

uen.gov.sg/ueninternet/faces/pages/uenSearch.jspx?\_afLoop=4944649250743226&\_afWindowMode=0&\_afWindowId=null&\_afCtrlState=j4gfb13vq\_1

of all entities registered in Singapore

All • singapore institute of engineering technologists

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UEN: 580550096E (7)  
Entity Type: SOCIETIES  
UEN Issuance Agency: Registry of Societies  
Address: 68, Duxton Road, Royal Institution Centre, SINGAPORE 089527

Entity Name: Singapore Institute of Engineering Technologists, The  
UEN Status: REGISTERED  
Previous Entity Registration No.: 0217/1980(ROS), 61118830000N(CRN)

Showing 1 - 1 of 1 Records Show 10 Back Next No. of results 1

Note:

Ask Jamie @ UEN  
Type your question

9:11 PM  
18/03/2020

## List of Staff on January 2018

IQY (Intelligence Quality) Technical College (Education Group) is established to offer the online vocational education and training programs with face to face class assistance to the youths of Myanmar (Burma) inside and outside the country.

### IQY Structure

HIGHLIGHT COMPUTER GROUP (IQY TECHNICAL COLLEGE STAFF)

### Faculties of IQY Technical College & IPEM Technological University

<http://www.igytechnicalcollege.com/IPEMTUAcademicFaculty.pdf>

(1) Faculty of Professional Studies

(2) Faculty of Skills Training

### Dean

Deputy Principal / Registrar

Program Leaders

### **FACULTY OF PROFESSIONAL STUDIES**

## **Lecturers / Teachers**

Engineering Studies

Business & Management Studies

Computer & Information Technology Studies

Additionally Recruited Teachers and Tutors

College Administration

IQY Mandalay Teachers

### **VOCATIONAL EDUCATION TEACHER TRAINING**

**Teacher's Certificate in Vocational Education and Training (Level 1 to 5)**

**Vocational Education Teacher Education**

## Dean

Director/ Dean/ Principal Lecturer/ Principal (International)	IQY Staff ID1
Representative of Dean Deputy Director (International)	Dr Hla Myat Mon BA(English),Grad Dip Management (CQU). Master of Business (HRM)(University of Technology-Sydney), Dip MSEE , Doctor of University (St Clements University) Graduate Certificate in Learning Technology (Curtin University-Australia)

## Deputy Principal/ Registrar

Deputy Principal (Myanmar)	Dr Thwin Thu Lynn PhD (Electrical Power), Dip Teaching Practice (IQY/SIET), Dip MSEE
Registrar (International)	U Maung Oo ME (Mechanical) (New Zealand)

## Program Leaders (Advisors)

Engineering Studies (International)	U Maung Oo ME (Mechanical)
Management Studies (International)	Dr Hla Myat Mon BA(English), Grad Dip Management (CQU). Master of Business (HRM)(University of Technology-Sydney), Dip MSEE , Doctor of University (St Clements University) Graduate Certificate in Learning Technology (Curtin University-Australia)
Computer Studies (International)	U Nyan Lin Aung BE(EC), MSc (Computer Science), MEd

### Core Staff/ Foundation Academic Staff in Myanmar

#### Course Leaders & Heads of Department

Department of Electrical & Mechanical Engineering Electrical (by integrating Electrical Power, Electronics, Information Technology and ICT Engineering)	Head of Department Senior Lecture	Dr Thwin Thu Lynn	PhD (Electrical Power), Dip Teaching Practice (IQY/SIET), Dip MSEE
Department of Electrical Engineering+Engineering Applications Electrical (by integrating Electrical Power, Electronics, Information Technology and ICT Engineering)	Teacher	Daw Ni Ni Aung	BE(EP), RE, M & E Engineer & Experienced Site Engineer
Department of Mechanical	Trainee Teacher	Daw Nan Hon San	Advanced Diploma in Mechanical Engineering (IQY) Year 3 BE

Engineering (by integrating Mechanical, Metallurgy, Mining, Production, Chemical Process & Renewable Energy)			
Department of Civil Engineering (by integrating Civil, Construction & Architecture)	Head of Department Lecturer	Daw Hnin Yu Lwin	BE(Civil), ME (Civil)
Department of Management (by integrating Engineering Management & Business Management )	Head of Department Senior Lecturer	Dr Hla Myat Mon	BA(English), Grad Dip Management (CQU). Master of Business (HRM)(University of Technology-Sydney), Dip MSEE , Doctor of University (St Clements University) Graduate Certificate in Learning Technology (Curtin University-Australia)

### Core Staff/ Foundation Academic Staff

### Engineering Studies Teachers

Senior Lecturer (Electrical Power+ Bridging Program)	Dr Thwin Thu Lynn	PhD (Electrical Power), Dip Teaching Practice (IQY/SIET), Dip MSEE
Tutor (Mechanical Engineering)	Daw Nan Hon San	Advanced Diploma in Mechanical Engineering (IQY) , Year 3 BE
Teacher (E Learning Offline) (Civil+ Bridging Program)E Learning support	Daw Ni Ni Aung	BE(EP), RE, M & E Engineer & Experienced Site Engineer
Tutor	Daw Nang Mya San	Advanced Diploma in Electrical Engineering (IQY),Year 3 BE

(Electrical Engineering)		
Senior Lecturer (Engineering Management)	Dr Hla Myat Mon	BA(English),Grad Dip Management (CQU). Master of Business (HRM)(University of Technology-Sydney), Dip MSEE, Doctor of University (St Clements University) ,Graduate Certificate in Learning Technology (Curtin University-Australia)
Lecturer (Electronics/ICT Engineering & IT)	Dr Chan Mya Hmway	PhD (Electronics)

### Engineering Practice Teachers

Demonstrator	U Mya Lin	Dip WS
Teacher	Daw Ni Ni Aung	BE(EP), RE, M & E Engineer & Experienced Site Engineer

### Core Staff/ Foundation Academic Staff

#### Business & Management Studies Teacher

Program Leader- Management Studies	Daw Hla Myat Mon	BA (English),Dip French, Dip in Japanese (IFL) Grad Dip Mgt (Central Queensland University) Master of Business (HRM) University of Technology Sydney,, Dip MSEE
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### Core Staff/ Foundation Academic Staff

#### Computer & Information Technology Studies Teachers

#### IQY Technical College

Lecturer	Dr Chan Mya Hmway	PhD (EC)
Lecturer	Nang Mya San	Advanced Diploma in Electrical Engineering (IQY)

## Core Staff/ Foundation Academic Staff

### IQY MANDALAY -TEACHERS

Senior Lecturer	Daw Thandar Win	BE(Mechanical), Dip MSEE
Lecturer	Daw Yamin Thu	BE(EP) Dip MSEE
Lecturer	Daw Moe Zarni Htun	BE (Electrical)
Lecturer	Daw Khin Mar Phyoe	BE (Civil)

## FACULTY OF SKILLS TRAINING

### List of Staffs

Demonstrator	U Mya Lin	Dip WS
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## Core Staff/ Foundation Administration Staff

### Administration

### Administration (Yangon-Myanmar)

General Manager	Daw Hla Myat Mon (Australia)	BA(English), Grad Dip Mgt (CQU). M Business (HRM) UTS, Grad Cert Learn Tech (Curtin), Cert IV Training & Assessment, Dip MSEE
Registrar	U Maung Oo (New Zealand)	ME (Mechanical)
Trainee Manager/ Administrative Assistant	Daw Nang Mya Sann	Dip General Engg



### Administration (Mandalay-Myanmar) IQY Mandalay

Manager	Daw Yamin Thu	BE(EP), Dip MSEE
---------	---------------	------------------

### Administration (General Service/ Auxiliary Staff)

Technical Advisor	U Wunna Aung Myo	<u>Bachelor of Information Technology</u> (Central Queensland University-Australia), International Advanced Diploma in Computer Studies (UK), IDCS (UK)
-------------------	------------------	---

### Administration (International-Nigeria)

Organizer	Mr Raji Abiodun	BE(Mechanical)

### Administration (Affiliated Organization)

Organizer	U Min Khant Naing	B Humanities
Organizer	U Thwin Ko Ko Latt	B Humanities

### CAMPUS CO-ORDINATORS

IQY Online	Dr Thwin Thu Lynn Deputy Principal
------------	------------------------------------

Thura 2 Street Campus	Daw Nang Mya San -Tutor
Myitta Street Campus	Daw Ei Ei Soe-Senior Lecturer
Dagonthiri Street Campus	Dr Hla Myat Mon-Senior Lecturer
Yuzana Garden City Campus	U Mya Lin Demonstrator
IQY Mandalay Campus	Daw Yamin Thu-Lecturer
IQY Pyay Campus	U Htin Aung Shine-Manager

### Additionally Recruited Academic Staff

#### Teachers/ Tutors

IQY's organized list of Teachers/Tutors (All study areas)

	ACTIVE TEACHERS	
Name	Qualifications	Place of Tutoring
U Thwin Ko Ko Latt	B. Humanities, Dip Teaching Practice, Adv Dip Humanities	LKSG
Daw Hnin Hnin Ou	AGTI(Civil), BTech,BE(Civil) , Dip MSEE	Pyay Technical Institute
		Pyay Technical Institute

Daw Hnin Yu Lwin	BE (Civil), ME (Civil)	
Daw Ei Shwe Sin	BE (Civil)	Pyay Technical Institute
Daw Yamohn Aye	AGTI (EC)	Pyay Technical Institute
Daw Khin Mar Phyoe	BE(Civil)	Mandalay
Daw Moe Zar Ni Tun	BE(EP)	Mandalay
RESERVED TEACHERS		
<b>Name</b>	<b>Qualifications</b>	<b>Place of Tutoring</b>
Daw Hnin Hnin Ou	AGTI (Civil), BTech, BE(Civil) Dip MSEE	Pyay Technical Institute
U Htin Aung Shine	AGTI (EC), BTech	Pyay Technical Institute
Daw Ni Ni Aung	BE(Electrical Power)	Yangon



## IQY Technical College Students Results/Transcripts/Certificates

January 26, 2018



IQY Technical College Students' Results/ Transcripts/ Certificates



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January 26, 2018



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## IQY Technical College Students Timetables/ Course Timetables

### Advanced Diploma in General Engineering & Drafting Timetable for THS Students



January 26, 2018

Advanced Diploma in General Engineering & Drafting Timetable for THS Students

[http://www.highlightcomputer.com/Timetable for THS Students 2 Jan 2018.pdf](http://www.highlightcomputer.com/Timetable%20for%20THS%20Students%202%20Jan%202018.pdf)



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[Course Objectives of Diploma+ Advanced Diploma +Professional Diploma Programs](#)

[Detailed Contents of BE,B Bus& B App Sc \(IT\) Programs](#)

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](#)

[Full Curriculum of Professional Diploma in Engineering Programs](#)

## **COURSE OBJECTIVES**

[DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[DIPLOMA IN INFORMATION TECHNOLOGY](#)

[DIPLOMA IN MANAGEMENT](#)

[ADVANCED DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[ADVANCED DIPLOMA IN INFORMATION TECHNOLOGY](#)

[ADVANCED DIPLOMA IN MANAGEMENT](#)

[PROFESSIONAL DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[PROFESSIONAL DIPLOMA IN INFORMATION TECHNOLOGY](#)

[PROFESSIONAL DIPLOMA IN BUSINESS MANAGEMENT](#)

**Diploma in Electrical Engineering**

**Diploma in Mechanical Engineering**

**Diploma in Civil Engineering**

**Diploma in Computer Engineering**

**Diploma in Renewable Energy Engineering**

**[Diploma in Engineering \(Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology\) Course Outlines](#)**

IQY Technical College's one year Diploma in Engineering is designed to train the students to work as Engineering Associate or Engineering Technicians in wide ranges of industries.

It is designed to provide the following competencies.

To train the students to have a wide range of functions within engineering enterprises and engineering teams.

The training includes feasibility investigation, scoping, establishing criteria/performance measures, assessing and reporting technical and procedural options; design and development; component, resources and materials sourcing and procurement; construction, prototyping, manufacture, testing, installation, commissioning, service provision



and de-commissioning; tools, plant, equipment and facilities acquisition, management, maintenance, calibration and upgrades; operations management; procedures documentation; presentation and reporting; maintenance systems design and management; project and facility management; quality assurance, costing and budget management; document control and quality assurance.

The training is designed for the students

- To be closely familiar with standards and codes of practice, and to become expert in their interpretation and application to a wide variety of situations.
- To develop very extensive experience of practical installations, and may well be more knowledgeable than Professional Engineers or Engineering Technologists on detailed aspects of plant and equipment that can contribute very greatly to safety, cost or effectiveness in operation.
- To develop high levels of expertise in aspects of design and development processes. These might include, for example, the use of advanced software to perform detailed design of structures, mechanical components and systems, manufacturing or process plant, electrical and electronic equipment, information and communications systems, and so on.
- To do the construction of experimental or prototype equipment.
- To develop detailed practical knowledge and experience complementing the broader or more theoretical knowledge of others.

The training is also designed to provide a good grounding in engineering science and the principles underlying their field of expertise, to ensure that their knowledge and skills are portable across different applications and situations within the broad field of practice. Equipment, vendor or context-specific training in a particular job are not sufficient to guarantee generic competency. Given a good knowledge base, however, the graduates may build further on this through high levels of training in particular contexts and in relation to particular equipment.

The competencies of graduates to equip them to certify the quality of engineering work and the condition of equipment and systems in defined circumstances, laid down in recognised standards and codes of practice.

The training is also designed to lead or manage teams appropriate to these activities. Some may establish their own companies or may move into senior management roles in engineering and related enterprises, employing Professional Engineers, Engineering Technologists, and other specialists where appropriate.

#### **Diploma in Engineering can be studied in the following specializations**

- Diploma in Electrical Engineering
- Diploma in Mechanical Engineering
- Diploma in Civil Engineering
- Diploma in Renewable Energy Engineering
- Diploma in Computer Engineering / Diploma in Information Technology

#### **Diploma in Electrical Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Electrical Engineering. The completion of this program can be articulated into 60 points Advanced Diploma in Electrical Engineering & 120 credit points Professional Diploma in Electrical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Electrical Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### **Study Areas**

Electrical circuits, Basic Electronics, Mathematics, Physics, Electrical Wiring, Electrical Machines, Electro-magnetism, Computer Applications, Control System, Process Control, Electrical Contracting, Solar Electrical System, Electrical Drafting

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Electrical Engineering Course Outline**

<http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc>

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Mechanical Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Mechanical Engineering. The completion of this program can be articulated into 60 points Advanced Diploma in Mechanical Engineering & Mechatronics & 120 credit points Professional Diploma in Mechanical Engineering & Mechatronics which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Mechanical Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Mathematics, Physics, Machine Principle, Electrical Circuits, Heat Transfer, Principle of Engines, Fluid Mechanics, Engineering Mechanics, Mechanical Drawing, Hydrocarbon, Wind Turbine, Polymer Science, Turbo Machinery, Basic Management

#### **Specialized Fields**

Automotive Engineering, Marine Engineering

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Mechanical Engineering Course Outline](http://www.highlightcomputer.com/Diploma_in_Mechanical_Engineering.doc)

[http://www.highlightcomputer.com/Diploma\\_in\\_Mechanical\\_Engineering.doc](http://www.highlightcomputer.com/Diploma_in_Mechanical_Engineering.doc)

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Civil Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Civil Engineering & Construction Studies . The completion of this program can be articulated into 60 points Advanced Diploma in Civil Engineering & 120 credit points Professional Diploma in Civil Engineering & Building Services which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Civil Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Mathematics, Physics, Electrical Principle, Fluid Mechanics, Hydraulics, Hydrology, Building Construction, Sanitation & Water Supply, Energy Efficient Building Design

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Civil Engineering Course Outline](http://www.highlightcomputer.com/Diploma_in_Civil_Engineering.doc)

[http://www.highlightcomputer.com/Diploma\\_in\\_Civil\\_Engineering.doc](http://www.highlightcomputer.com/Diploma_in_Civil_Engineering.doc)

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Renewable Energy Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Renewable Energy Course Completion Certificate which is delivered through the public seminars . The completion of this program can be articulated into 120 credit points Professional Diploma in Renewable Energy Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Renewable Energy Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

### Study Areas

Foundation Studies in Renewable Energy and Sustainability, Grid Connected Photovoltaic Power Systems, Solar and Thermal Energy Systems, Energy Storage Systems, Renewable Energy Resource Analysis, Wind Energy Conversion Systems, Energy System Efficiency

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Renewable Energy Engineering Public Seminar + Diploma & Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

### Diploma in Computer Engineering/ Diploma in Information Technology

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology & 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Computer Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Diploma in Computer Engineering, the students need to do Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

### Study Areas

IT Fundamental, Computer Application, Computer Programming, System Analysis, Software Engineering, IT Project, Business Information System

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Diploma in Information Technology Course Outline](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[http://www.highlightcomputer.com/Diploma in Information Technology Course outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Electrical Engineering Course Outline](http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc)

<http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc>

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

**Advanced Diploma in Electrical Engineering**

**Advanced Diploma in Mechanical Engineering**

**Advanced Diploma in Civil Engineering**

**Advanced Diploma in Computer Engineering**

**Advanced Diploma in Renewable Energy Engineering**

### Advanced Diploma in Engineering (Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology) Course Outlines

IQY Technical College's two years Advanced Diploma in Engineering is designed to train the students to work as Engineering Technologist in wide ranges of industries.

It is designed to provide the following competencies.

To train the students to operate within broadly-defined technical environments, and undertake a wide range of functions and responsibilities. They are often specialists in the theory and practice of a particular branch of engineering technology or engineering-related technology (the technology domain), and specifically in its application,

adaptation or management, in a variety of contexts. Their expertise often lies in familiarity with the current state of development of a technology domain and most recent applications of the technology.

The training is designed to provide expertise to the students which may be at a high level, and fully equivalent to that of a Professional Engineer. That is designed

- to exercise the same breadth of perspective as Professional Engineers, or carry the same wide-ranging responsibilities for stakeholder interactions, for system integration, and for synthesising overall approaches to complex situations and complex engineering problems.
- to possess for a strong understanding of practical situations and applications, with the intellectual challenge of keeping abreast of leading-edge developments as a specialist in a technology domain and how these relate to established practice. For this purpose Engineering Technologists need a strong understanding of scientific and engineering principles and a well-developed capacity for analysis.
- to apply current and emerging technologies, often in new contexts; or with the application of established principles in the development of new practice.
- To contribute to the advancement of technology.
- to take responsibility for engineering projects, services, functions and facilities within a technology domain, for specific interactions with other aspects of an overall operating context and for managing
- to contribute the specialist work to a broader engineering system or solution. In these roles, Engineering
- to focus on sustainable solutions and practices which optimise technical, social, environmental and economic outcomes within the technology domain and over a whole systems life cycle.
- to have an intimate understanding of the standards and codes of practice that underpin the technology domain and ensure that technology outcomes comply with statutory requirements. Engineering Technologists are required to interact effectively with Professional Engineers and Engineering Associates, with other professionals, tradespersons, clients, stakeholders and society in general, to ensure that technology outcomes and developments fully integrate with the overall system and context.
- to ensure that all aspects of a technological product, or operation are soundly based in theory and fundamental principle.
- to understand how new developments relate to their specific field of expertise.
- to interpret technological possibilities, to investigate interfaces, limitations, consequences, costs and risks.

The training is also designed to provide the skills of Engineering Technologists who may lead teams responsible for the implementation, operation, quality assurance, safety, management, and maintenance of projects, plant, facilities, or processes within specialist practice area(s) of the technology domain. Some Engineering Technologists may establish their own companies or may move into senior management roles in engineering and related enterprises, employing Professional Engineers and other specialists where appropriate.

The following competencies are outlined in the Advanced Diploma in Engineering Programs

#### 1. KNOWLEDGE AND SKILL BASE

- 1.1. Systematic, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the technology domain.
- 1.2. Conceptual understanding of the, mathematics, numerical analysis, statistics, and computer and information sciences which underpin the technology domain.
- 1.3. In-depth understanding of specialist bodies of knowledge within the technology domain.
- 1.4. Discernment of knowledge development within the technology domain.
- 1.5. Knowledge of engineering design practice and contextual factors impacting the technology domain.
- 1.6. Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the technology domain.

#### 2. ENGINEERING APPLICATION ABILITY

- 2.1. Application of established engineering methods to broadly-defined problem solving within the technology domain.
- 2.2. Application of engineering techniques, tools and resources within the technology domain.
- 2.3. Application of systematic synthesis and design processes within the technology domain.
- 2.4. Application of systematic approaches to the conduct and management of projects within the technology domain.

### 3. PROFESSIONAL AND PERSONAL ATTRIBUTES

- 3.1. Ethical conduct and professional accountability.
- 3.2. Effective oral and written communication in professional and lay domains.
- 3.3. Creative, innovative and pro-active demeanour.
- 3.4. Professional use and management of information.
- 3.5. Orderly management of self, and professional conduct.
- 3.6. Effective team membership and team leadership.

### Advanced Diploma in Engineering can be studied in the following specializations

- Advanced Diploma in Electrical Engineering
- Advanced Diploma in Mechanical Engineering
- Advanced Diploma in Civil Engineering
- Advanced Diploma in Renewable Energy Engineering
- Advanced Diploma in Computer Engineering / Advanced Diploma in Information Technology

### Advanced Diploma in Electrical Engineering

This program is designed with 60 credit points integrating 30 credit points Diploma in Electrical Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Electrical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Electrical Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Electrical Power Circuits, Electrical Power System, Mathematics, Physics, AC/DC Machines, Control System, Power System Protection, Energy Efficiency, Project Management, Advanced Electrical Drafting, Power Transmission Line, Engineering Officer Competency Report.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

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### Advanced Diploma in Mechanical Engineering

This program is designed with 60 credit points integrating 30 credit points Diploma in Mechanical Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Mechanical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Mechanical Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Higher Mathematics, Fluid Dynamics, Automation & Robotics, Computer Aided Design & Manufacturing, Control System, Manufacturing, Mechatronics, Numerical Control, Pneumatics, Building Services. Air-conditioning Refrigeration

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Advanced Diploma in Civil Engineering**

This program is designed with 60 credit points integrating 30 credit points Diploma in Civil Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Civil Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Civil Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Surveying, Road & Bridges, Structure, Estimating, Electrical Installation, Electrical Wiring, Air-conditioning Refrigeration, Engineering Mechanics

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Advanced Diploma in Renewable Energy Engineering**

This program is designed with 60 credit points integrating 30 credit points Certificate in Renewable Energy Course Completion Certificate which is delivered through the public seminars . The completion of this program can be articulated into 120 credit points Professional Diploma in Renewable Energy Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Renewable Energy Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Advanced contents in Renewable Energy, Electrical Engineering, Basic Civil & Mechanical Engineering, Electrical Machines, Electronics Control

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

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### **Advanced Diploma in Computer Engineering/ Advanced Diploma in Information Technology**

This program is designed with 30 credit points integrating 30 credit points Diploma in Information Technology . The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Computer Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Advanced Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Advanced Diploma in Computer Engineering, the students need to do Advanced Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

#### Study Areas

Organizational Behaviour, IT Networking, Information System Analysis & Design, Advanced Programming, Project Work

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### Advanced Diploma in Information Technology Course Outline

[http://www.filefactory.com/file/7dmpqlotj2fn/n/Advanced\\_Diploma\\_in\\_Information\\_Technology\\_pdf](http://www.filefactory.com/file/7dmpqlotj2fn/n/Advanced_Diploma_in_Information_Technology_pdf)

#### Electrical Engineering Course Outline

[http://www.highlightcomputer.com/Diploma\\_&\\_Advanced\\_Diploma\\_in\\_Electrical\\_Engineering\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_&_Advanced_Diploma_in_Electrical_Engineering_Course_outline.doc)

#### Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs

<http://www.highlightcomputer.com/detailedcontent.htm>

**Professional Diploma in Electrical Engineering**

**Professional Diploma in Mechanical Engineering**

**Professional Diploma in Civil Engineering**

**Professional Diploma in Computer Engineering**

**Professional Diploma in Renewable Energy Engineering**

#### **Professional Diploma in Engineering (Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology) Course Outlines**

IQY Technical College's four years Professional Diploma in Engineering is designed to train the students to work as Engineering Technologist /Professional Engineer in wide ranges of industries.

It is designed at the same academic requirement as to Bachelor of Engineering degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Engineering can be awarded Bachelor of Engineering by the universities which are affiliated to IQY Technical College.

The program is designed to train the students to become Professional Engineers who are required to take responsibility for engineering projects and programs in the most far-reaching sense.

It is designed to provide the following competencies.

- To perform the reliable functioning of all materials, components, sub-systems and technologies used; their integration to form a complete, sustainable and self-consistent system; and all interactions between the technical system and the context within which it functions. The latter includes understanding the requirements of clients, wide ranging stakeholders and of society as a whole; working to optimise social, environmental and economic outcomes over the full lifetime of the engineering product or program; interacting effectively with other disciplines, professions and people; and ensuring that the engineering contribution is properly integrated into the totality of the undertaking.
- To do interpreting technological possibilities to society, business and government; and for ensuring as far as possible that policy decisions are properly informed by such possibilities and consequences, and that costs, risks and limitations are properly understood as the desirable outcomes.
- To bring knowledge to bear from multiple sources to develop solutions to complex problems and issues, for ensuring that technical and non-technical considerations are properly integrated, and for managing risk as well as sustainability issues. While the outcomes of engineering have physical forms, the work of
- To train the students to become predominantly intellectual in nature. In a technical sense, Professional Engineers are primarily concerned with the advancement of technologies and with the development of new technologies and their applications through innovation, creativity and change. Professional Engineers may conduct research concerned with advancing the science of engineering and with developing new principles and technologies within a broad engineering discipline.
- To contribute to continual improvement in the practice of engineering, and in devising and updating the codes and standards that govern it.



- To take a particular responsibility for ensuring that all aspects of a project are soundly based in theory and fundamental principle, and for understanding clearly how new developments relate to established practice and experience and to other disciplines with which they may interact. One hallmark of a professional is the capacity to break new ground in an informed, responsible and sustainable fashion.

The program is also designed to provide the skills required for the graduated to lead or manage teams appropriate to these activities, and may establish their own companies or move into senior management roles in engineering and related enterprises.

### **COMPETENCIES**

#### **1. KNOWLEDGE AND SKILL BASE**

- 1.1. Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline.
- 1.2. Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline.
- 1.3. In-depth understanding of specialist bodies of knowledge within the engineering discipline.
- 1.4. Discernment of knowledge development and research directions within the engineering discipline.
- 1.5. Knowledge of engineering design practice and contextual factors impacting the engineering discipline.
- 1.6. Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline.

#### **2. ENGINEERING APPLICATION ABILITY**

- 2.1. Application of established engineering methods to complex engineering problem solving.
- 2.2. Fluent application of engineering techniques, tools and resources.
- 2.3. Application of systematic engineering synthesis and design processes.
- 2.4. Application of systematic approaches to the conduct and management of engineering projects.

#### **3. PROFESSIONAL AND PERSONAL ATTRIBUTES**

- 3.1. Ethical conduct and professional accountability.
- 3.2. Effective oral and written communication in professional and lay domains.
- 3.3. Creative, innovative and pro-active demeanour.
- 3.4. Professional use and management of information.
- 3.5. Orderly management of self, and professional conduct.
- 3.6. Effective team membership and team leadership.

### **Professional Diploma in Engineering can be studied in the following specializations**

- Professional Diploma in Electrical Engineering
- Professional Diploma in Mechanical Engineering



- Professional Diploma in Civil Engineering
- Professional Diploma in Renewable Energy Engineering
- Professional Diploma in Computer Engineering / Professional Diploma in Information Technology

### **Professional Diploma in Electrical Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Electrical Engineering. The completion of this program can be awarded Professional Diploma in Electrical Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Electrical Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### **Study Areas**

Mathematics, Engineering Mechanics & Thermodynamics, Electrical Circuit Analysis, Electro-magnetics & Electrical Machines, Control System, Power System, Electronics, Telecommunication, Industrial Management, Computer Programming, Computer Network, Engineering Project, Building Services, Competency Demonstration Report Writing

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Bachelor of Engineering (Electrical Engineering) Course Outline**

<http://www.filefactory.com/file/5ftv3w6yjcrr/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

#### **Detailed Contents of BE.B Bus& B App Sc (IT) Programs**

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

### **Professional Diploma in Mechanical Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Mechanical Engineering. The completion of this program can be awarded Professional Diploma in Mechanical Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Mechanical Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### **Study Areas**

Mathematics, Engineering Mechanics & Thermodynamics, Industrial Management, Computer Programming, Computer Network, Engineering Project, Building Services, ,Air-conditioning & Refrigeration, Machine Design, Mechanical Instrumentation, Production Technology, Engineering Materials, Maintenance Engineering , Mechanical Power Generation, Applied Electrical/Electronics & Control System, Competency Demonstration Report Writing

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Bachelor of Engineering (Mechanical Engineering-Mechatronics) Course Outline**

[http://www.filefactory.com/file/113wg8regbuh/n/Bachelor\\_of\\_Applied\\_Engineering\\_Mechanical-Mechatronics\\_Course\\_Outline.doc](http://www.filefactory.com/file/113wg8regbuh/n/Bachelor_of_Applied_Engineering_Mechanical-Mechatronics_Course_Outline.doc)

#### **Bachelor of Applied Engineering (Final Year Mechanical Design) Course Outline**

[http://www.filefactory.com/file/7greuqxlvyh/n/Graduate\\_Diploma\\_of\\_Mechanical\\_Engineering\\_B\\_App\\_Eng\\_Mech\\_Course\\_Outline.doc](http://www.filefactory.com/file/7greuqxlvyh/n/Graduate_Diploma_of_Mechanical_Engineering_B_App_Eng_Mech_Course_Outline.doc)

#### **Detailed Contents of BE.B Bus& B App Sc (IT) Programs**

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

### **Professional Diploma in Civil Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Civil Engineering. The completion of this program can be awarded Professional Diploma in Civil Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Civil Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### Study Areas

Mathematics, Engineering Mechanics & Thermodynamics, Industrial Management, Computer Programming, Building Construction, Estimating, Fluid Mechanics, Structural Engineering, Reinforce Concrete, Timber Engineering, Soil & Rock Mechanics, Environmental Engineering, Road & Bridges, Building Service Engineering, Traffic Engineering, Surveying, Water Supply Sanitation, Engineering Competency Demonstration Report Writing.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Bachelor of Engineering \(Civil Engineering-Building Services\) Course Outline](http://www.filefactory.com/file/npjw5ekau5/Bachelor%20of%20Applied%20Engineering%20%28Civil-Building%20Services%29%20Course%20Outline.doc)

<http://www.filefactory.com/file/npjw5ekau5/Bachelor%20of%20Applied%20Engineering%20%28Civil-Building%20Services%29%20Course%20Outline.doc>

#### [Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline](http://www.filefactory.com/file/37twg21wx97z/Graduate%20Diploma%20of%20Civil%20Engineering%2BB%20App%20Eng%20%28Civil%29%20Course%20Outline.doc)

<http://www.filefactory.com/file/37twg21wx97z/Graduate%20Diploma%20of%20Civil%20Engineering%2BB%20App%20Eng%20%28Civil%29%20Course%20Outline.doc>

#### [Detailed Contents of BE, B Bus& B App Sc \(IT\) Programs](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

#### **Professional Diploma in Renewable Energy Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Renewable Energy Engineering. The completion of this program can be awarded Professional Diploma in Renewable Energy Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

This program explores the way to make the best use of renewable energy technologies including solar thermal systems, photovoltaics, wind and biomass. Renewable Energy Engineering borrows much of its structure from some other areas of engineering, such as electrical engineering and photovoltaic engineering. It encompasses a broad range of renewable energy technologies including electricity generation from solar thermal systems, photovoltaics, wind and biomass. It also covers solar architecture and energy efficient housing design

The graduates of Professional Diploma in Renewable Energy Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### Study Areas

Foundation Studies in Renewable Energy and Sustainability, Grid Connected Photovoltaic Power Systems, Solar and Thermal Energy Systems, Energy Storage Systems, Renewable Energy Resource Analysis, Wind Energy Conversion Systems, Energy System Efficiency, Mathematics & Physics, Engineering Materials, Civil & Mechanical Engineering, Electrical Engineering, Electrical Machines, Electronics Control, Design & Management, Project, Engineering Competency Demonstration Report Writing.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

#### **Professional Diploma in Computer Engineering/ Professional Diploma in Information Technology**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Information Technology . Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated IQY Technical College.

The graduates of Professional Diploma in Computer Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologist or ASEAN Engineer.

The graduates of Professional Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Professional Diploma in Computer Engineering, the students need to do some Bachelor of Engineering (Electrical) units at the same time.

#### Study Areas

##### Computer

Computer Programming, Computer Network, Software Engineering, Artificial Intelligence, Telecommunication Engineering, Project Management,

##### Electrical/Electronics

Electrical Engineering, Analog & Digital Control, Control System, Engineering Management

Engineering Competency Demonstration Report Writing

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

##### Detailed Contents of BE.B Bus& B App Sc (IT) Programs

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

##### Bachelor of Engineering (Electrical Engineering) Course Outline

<http://www.filefactory.com/file/5ftv3w6yjcrr/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

## **Diploma in information Technology**

### Diploma in Information Technology

This course will provide the students with the skills and knowledge to manage information and communications technology (ICT) support in small-to-medium enterprises using a wide range of general ICT technologies. The students will learn skills to support computer systems, involving people, hardware, software and procedures in a networked environment. They will also learn skills that enable them to maintain and guide teams and manage projects.

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology & 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Computer Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Diploma in Computer Engineering, the students need to do Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

#### Study Areas

IT Fundamental, Computer Application, Computer Programming, System Analysis, Software Engineering, IT Project, Business Information System

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

##### Diploma in Information Technology Course Outline

[http://www.highlightcomputer.com/Diploma\\_in\\_Information\\_Technology\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

##### Electrical Engineering Course Outline

[http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course\\_outline.doc](http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course_outline.doc)

##### Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs

<http://www.highlightcomputer.com/detailedcontent.htm>

## Advanced Diploma in information Technology

### Advanced Diploma in Information Technology

The Advanced Diploma in Information Technology provides the students with high level Information and Communications Technology (ICT) process improvement in senior ICT roles within organisations. The qualification builds on a base core of management competencies, with specialist and general elective choices to suit particular ICT and business needs, especially in the areas of knowledge management and systems development.

This qualification is suited to dynamic leaders who wish to broaden their business perspective, enhance management capability and strengthen leadership behaviour. The focus is on managing the strategic direction of a business through leadership, financial management and comprehensive business operations. It is ideal for those in senior management positions with responsibility for strategic leadership across the business or in specialist areas.

The following competencies are integrated in this course

- Provide leadership across the organisation
- Manage employee relations
- Develop and implement a business plan
- Manage organisational change
- Manage innovation and continuous improvement
- Manage risk
- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems at technologist level.
- to be project-focused with studies in programming languages, algorithms and information structure and develop the ability to process data or information in order to solve problems at technologist level.
- to provide team dynamics, presentation skills and project management at middle class manager level.
- The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology which is the award of Bachelor of Applied Science (Information Technology) or Bachelor of Information Technology degree by the universities affiliated to IQY Technical College.
- [Detailed contents of the units](#)

Detailed contents of the units can be viewed at the following links

[Advanced Diploma in Information Technology Course Outline.](#)

[http://www.highlightcomputer.com/Advanced Diploma in Information Technology.pdf](http://www.highlightcomputer.com/Advanced_Diploma_in_Information_Technology.pdf)

[Diploma in Information Technology Course Outline](#)

[http://www.highlightcomputer.com/Diploma in Information Technology Course outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Management Course Outline](#)

[http://www.highlightcomputer.com/Diploma of Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

## **Professional Diploma in Information Technology**

IQY Technical College's four years Professional Diploma in Information Technology is designed to train the students to work as computing professionals, to use ICT to be a better scientist, or to empower themselves to better understand the technology behind many of today's careers. Increasingly, employers see an ICT qualification as a sign of academic well-roundedness. ICT drives innovations such as the human genome project, vaccine research, environmental modelling. Emerging areas include electronic security, earth simulation (related to the mining boom) and bioinformatics. Independent job market surveys show that demand for graduates is escalating, along with salaries. Industry is concerned about a shortage of talent.

It is designed at the same academic requirement as to Bachelor of Information Technology degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Engineering can be awarded Bachelor of Applied Science (Information Technology) & Bachelor of Information Technology by the universities which are affiliated to IQY Technical College.

The graduates can apply for membership of International Institute of Science Engineering & Management.

The program is designed to train the students to become ICT Professionals who are required to take responsibility for ICT projects and programs in the most far-reaching sense.

It is designed to provide the following competencies.

- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems.
- to be project-focused with studies in programming languages, algorithms and information structure and develop the ability to process data or information in order to solve problems.
- to provide team dynamics, presentation skills and project management.

See the [course list](#) for courses that can be studied as part of the Bachelor of Information Technology.

## Study Areas

- [Computer Systems and Networks](#)
- [Enterprise Information Systems](#)
- [Human-Computer Interaction](#)
- [Software Design](#)
- [Software Information Systems](#)
- [Electrical Engineering for the award of Professional Diploma in Computer Engineering](#)

### [Detailed contents of the units](#)

Detailed contents of the units can be viewed at the following links.

### [Bachelor of Applied Science \(Computer Science & Computer Technology\)](#)

[http://www.highlightcomputer.com/B\\_App\\_Sci\\_\(CS&\\_CT\)\\_Course\\_outline.pdf](http://www.highlightcomputer.com/B_App_Sci_(CS&_CT)_Course_outline.pdf)

### [Bachelor of Engineering \(Electrical Engineering\) Course Outline](#)

<http://www.filefactory.com/file/5ftv3w6yjcrn/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

### [Professional Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline](#)

[http://www.highlightcomputer.com/Graduate\\_Diploma\\_of\\_Engineering\\_Practice\\_Computer\\_ControlUpdate%5b1%5d.doc](http://www.highlightcomputer.com/Graduate_Diploma_of_Engineering_Practice_Computer_ControlUpdate%5b1%5d.doc)

### [Detailed Contents of BE.B Bus& B App Sc \(IT\) Programs](#)

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

## Diploma in Management

IQY Technical College's one year Diploma in Management is designed to train the students to work as middle class managers in wide ranges of industries & companies.

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology or pure management stream. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology Management & 120 credit points Professional Diploma in Business Management which is the award of Bachelor of Business Management degree by the universities affiliated to IQY Technical College.

The graduates can apply for membership of The Institute of Professional Business and Technical Managers.

It is designed to provide the following competencies.

- To explore the factors for achieving success with a business, management is becoming increasingly challenging.

- To provide the planning on a [management career](#).
- To provide the understanding of the leadership process will form the foundation to build the management skills.
- To be able to effectively manage others to perform at their best while focusing on the growth of a business.
- This course can turn your management experience into a formal qualification, or it can up-skill you to get further ahead in your career.

This course will also train the students to develop a project plan, manage budgets and seek opportunities for further [business](#) improvement. The students will gain knowledge on how to liaise with stakeholders and ensure team effectiveness. This diploma also addresses the multiple challenges faced by managers in today's rapidly changing business environment and provides solutions and strategies to work under various business conditions.

This course is fully flexible with no assessment due dates or classes to attend. Structure your learning around students' current commitments and take the next step in their [business management](#) career.

## Potential career outcomes

- business manager
- team leader
- facilities coordinator
- department manager

### [Detailed contents of the units](#)

Detailed contents of the units can be viewed at the following links.

[Management Course Outline](#)

[http://www.highlightcomputer.com/Diploma\\_of\\_Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](#)

<http://www.highlightcomputer.com/detailedcontent.htm>

## Advanced Diploma in Management

### Advanced Diploma of Information Technology Management

The Advanced Diploma in Information Technology Management provides the students with high level Information and Communications Technology (ICT) process improvement in senior ICT roles within organisations. The qualification builds on a base core of management competencies, with specialist and general elective choices to suit particular ICT and business needs, especially in the areas of knowledge management and systems development.

This program is designed with 60 credit points which is integrated with 30 points from Diploma in Information Technology or Diploma in Management.

- The students who complete Diploma in Information Technology attend the Diploma in Management units together with Advanced Diploma in Information Technology units and then can be graduated with Advanced Diploma in Information Technology Management.
- The students who complete Diploma in Management attend the Diploma in Information Technology units together with Advanced Diploma in Information Technology units and then can be graduated with Advanced Diploma in Information Technology Management.

It is designed to provide the following competencies.

The following competencies are integrated in this course

- Provide leadership across the organisation
- Develop and implement strategic plans
- Manage employee relations
- Develop and implement a business plan
- Manage organisational change
- Manage finances
- Manage innovation and continuous improvement
- Manage risk
- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems at technologist level.
- to provide team dynamics, presentation skills and project management at middle class manager level.

The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology or Professional Diploma in Business Management which is the award of Bachelor of Applied Science (Information Technology), Bachelor of Information Technology or Bachelor of Business Management degree by the universities affiliated to IQY Technical College.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links

[Advanced Diploma in Information Technology Course Outline.](#)

[http://www.highlightcomputer.com/Advanced\\_Diploma\\_in\\_Information\\_Technology.pdf](http://www.highlightcomputer.com/Advanced_Diploma_in_Information_Technology.pdf)

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[Diploma in Information Technology Course Outline](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)  
[http://www.highlightcomputer.com/Diploma\\_in\\_Information\\_Technology\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Management Course Outline](http://www.highlightcomputer.com/Diploma_of_Management.doc)  
[http://www.highlightcomputer.com/Diploma\\_of\\_Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

## Professional Diploma in Management

## **Professional Diploma in Business Management**

Professional Diploma in Business (Management) is a highly innovative and flexible program that is designed to develop professional capabilities for tomorrow's managers and business leaders.

As well as providing the operational skills and knowledge required to manage successful organisations, students also participate in workplace learning subjects that provide real-life, practical experience.

An optimum blend of theory and practice is offered, with a combination of subjects to develop both soft skills for working with people and hard skills directed at areas in operations and project management.

This course is designed with 120 Credit points integrating 60 Points Advanced Diploma in Information Technology Management.

It is designed at the same academic requirement as Bachelor of Business Management degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Business (Management) can be awarded Bachelor of Business by the universities which are affiliated to IQY Technical College.

The graduates of Professional Diploma in Business (Management) can apply for Membership of Institute of Professional Business and Technical Managers.

## Course structure

[Bachelor of Business /Bachelor of Applied Management Course Outline](http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc)  
<http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc>

[Detailed Contents of BE.B Bus& B App Sc \(IT\) Programs](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)  
[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)



## **COURSE OBJECTIVES**

[DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[DIPLOMA IN INFORMATION TECHNOLOGY](#)

[DIPLOMA IN MANAGEMENT](#)

[ADVANCED DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[ADVANCED DIPLOMA IN INFORMATION TECHNOLOGY](#)

[ADVANCED DIPLOMA IN MANAGEMENT](#)

[PROFESSIONAL DIPLOMA IN ENGINEERING \(ELECTRICAL/CIVIL/MECHANICAL/COMPUTER/RENEWABLE ENERGY\)](#)

[PROFESSIONAL DIPLOMA IN INFORMATION TECHNOLOGY](#)

[PROFESSIONAL DIPLOMA IN BUSINESS MANAGEMENT](#)

**Diploma in Electrical Engineering**

**Diploma in Mechanical Engineering**

**Diploma in Civil Engineering**

**Diploma in Computer Engineering**

**Diploma in Renewable Energy Engineering**

**[Diploma in Engineering \(Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology\) Course Outlines](#)**

IQY Technical College's one year Diploma in Engineering is designed to train the students to work as Engineering Associate or Engineering Technicians in wide ranges of industries.

It is designed to provide the following competencies.

To train the students to have a wide range of functions within engineering enterprises and engineering teams.

The training includes feasibility investigation, scoping, establishing criteria/performance measures, assessing and reporting technical and procedural options; design and development; component, resources and materials sourcing and procurement; construction, prototyping, manufacture, testing, installation, commissioning, service provision

and de-commissioning; tools, plant, equipment and facilities acquisition, management, maintenance, calibration and upgrades; operations management; procedures documentation; presentation and reporting; maintenance systems design and management; project and facility management; quality assurance, costing and budget management; document control and quality assurance.

The training is designed for the students

- To be closely familiar with standards and codes of practice, and to become expert in their interpretation and application to a wide variety of situations.
- To develop very extensive experience of practical installations, and may well be more knowledgeable than Professional Engineers or Engineering Technologists on detailed aspects of plant and equipment that can contribute very greatly to safety, cost or effectiveness in operation.
- To develop high levels of expertise in aspects of design and development processes. These might include, for example, the use of advanced software to perform detailed design of structures, mechanical components and systems, manufacturing or process plant, electrical and electronic equipment, information and communications systems, and so on.
- To do the construction of experimental or prototype equipment.
- To develop detailed practical knowledge and experience complementing the broader or more theoretical knowledge of others.

The training is also designed to provide a good grounding in engineering science and the principles underlying their field of expertise, to ensure that their knowledge and skills are portable across different applications and situations within the broad field of practice. Equipment, vendor or context-specific training in a particular job are not sufficient to guarantee generic competency. Given a good knowledge base, however, the graduates may build further on this through high levels of training in particular contexts and in relation to particular equipment.

The competencies of graduates to equip them to certify the quality of engineering work and the condition of equipment and systems in defined circumstances, laid down in recognised standards and codes of practice.

The training is also designed to lead or manage teams appropriate to these activities. Some may establish their own companies or may move into senior management roles in engineering and related enterprises, employing Professional Engineers, Engineering Technologists, and other specialists where appropriate.

#### **Diploma in Engineering can be studied in the following specializations**

- Diploma in Electrical Engineering
- Diploma in Mechanical Engineering
- Diploma in Civil Engineering
- Diploma in Renewable Energy Engineering
- Diploma in Computer Engineering / Diploma in Information Technology

#### **Diploma in Electrical Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Electrical Engineering. The completion of this program can be articulated into 60 points Advanced Diploma in Electrical Engineering & 120 credit points Professional Diploma in Electrical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Electrical Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### **Study Areas**

Electrical circuits, Basic Electronics, Mathematics, Physics, Electrical Wiring, Electrical Machines, Electro-magnetism, Computer Applications, Control System, Process Control, Electrical Contracting, Solar Electrical System, Electrical Drafting

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Electrical Engineering Course Outline**

<http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc>

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Mechanical Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Mechanical Engineering. The completion of this program can be articulated into 60 points Advanced Diploma in Mechanical Engineering & Mechatronics & 120 credit points Professional Diploma in Mechanical Engineering & Mechatronics which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Mechanical Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Mathematics, Physics, Machine Principle, Electrical Circuits, Heat Transfer, Principle of Engines, Fluid Mechanics, Engineering Mechanics, Mechanical Drawing, Hydrocarbon, Wind Turbine, Polymer Science, Turbo Machinery, Basic Management

#### **Specialized Fields**

Automotive Engineering, Marine Engineering

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Mechanical Engineering Course Outline](http://www.highlightcomputer.com/Diploma_in_Mechanical_Engineering.doc)

[http://www.highlightcomputer.com/Diploma\\_in\\_Mechanical\\_Engineering.doc](http://www.highlightcomputer.com/Diploma_in_Mechanical_Engineering.doc)

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Civil Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Civil Engineering & Construction Studies . The completion of this program can be articulated into 60 points Advanced Diploma in Civil Engineering & 120 credit points Professional Diploma in Civil Engineering & Building Services which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Civil Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Mathematics, Physics, Electrical Principle, Fluid Mechanics, Hydraulics, Hydrology, Building Construction, Sanitation & Water Supply, Energy Efficient Building Design

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Civil Engineering Course Outline](http://www.highlightcomputer.com/Diploma_in_Civil_Engineering.doc)

[http://www.highlightcomputer.com/Diploma\\_in\\_Civil\\_Engineering.doc](http://www.highlightcomputer.com/Diploma_in_Civil_Engineering.doc)

## [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Diploma in Renewable Energy Engineering**

This program is designed with 30 credit points integrating 15 credit points Certificate in Renewable Energy Course Completion Certificate which is delivered through the public seminars . The completion of this program can be articulated into 120 credit points Professional Diploma in Renewable Energy Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Renewable Energy Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

### Study Areas

Foundation Studies in Renewable Energy and Sustainability, Grid Connected Photovoltaic Power Systems, Solar and Thermal Energy Systems, Energy Storage Systems, Renewable Energy Resource Analysis, Wind Energy Conversion Systems, Energy System Efficiency

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Renewable Energy Engineering Public Seminar + Diploma & Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

### Diploma in Computer Engineering/ Diploma in Information Technology

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology & 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Computer Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Diploma in Computer Engineering, the students need to do Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

### Study Areas

IT Fundamental, Computer Application, Computer Programming, System Analysis, Software Engineering, IT Project, Business Information System

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Diploma in Information Technology Course Outline](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[http://www.highlightcomputer.com/Diploma in Information Technology Course outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Electrical Engineering Course Outline](http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc)

<http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course outline.doc>

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

**Advanced Diploma in Electrical Engineering**

**Advanced Diploma in Mechanical Engineering**

**Advanced Diploma in Civil Engineering**

**Advanced Diploma in Computer Engineering**

**Advanced Diploma in Renewable Energy Engineering**

### Advanced Diploma in Engineering (Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology) Course Outlines

IQY Technical College's two years Advanced Diploma in Engineering is designed to train the students to work as Engineering Technologist in wide ranges of industries.

It is designed to provide the following competencies.

To train the students to operate within broadly-defined technical environments, and undertake a wide range of functions and responsibilities. They are often specialists in the theory and practice of a particular branch of engineering technology or engineering-related technology (the technology domain), and specifically in its application,

adaptation or management, in a variety of contexts. Their expertise often lies in familiarity with the current state of development of a technology domain and most recent applications of the technology.

The training is designed to provide expertise to the students which may be at a high level, and fully equivalent to that of a Professional Engineer. That is designed

- to exercise the same breadth of perspective as Professional Engineers, or carry the same wide-ranging responsibilities for stakeholder interactions, for system integration, and for synthesising overall approaches to complex situations and complex engineering problems.
- to possess for a strong understanding of practical situations and applications, with the intellectual challenge of keeping abreast of leading-edge developments as a specialist in a technology domain and how these relate to established practice. For this purpose Engineering Technologists need a strong understanding of scientific and engineering principles and a well-developed capacity for analysis.
- to apply current and emerging technologies, often in new contexts; or with the application of established principles in the development of new practice.
- To contribute to the advancement of technology.
- to take responsibility for engineering projects, services, functions and facilities within a technology domain, for specific interactions with other aspects of an overall operating context and for managing
- to contribute the specialist work to a broader engineering system or solution. In these roles, Engineering
- to focus on sustainable solutions and practices which optimise technical, social, environmental and economic outcomes within the technology domain and over a whole systems life cycle.
- to have an intimate understanding of the standards and codes of practice that underpin the technology domain and ensure that technology outcomes comply with statutory requirements. Engineering Technologists are required to interact effectively with Professional Engineers and Engineering Associates, with other professionals, tradespersons, clients, stakeholders and society in general, to ensure that technology outcomes and developments fully integrate with the overall system and context.
- to ensure that all aspects of a technological product, or operation are soundly based in theory and fundamental principle.
- to understand how new developments relate to their specific field of expertise.
- to interpret technological possibilities, to investigate interfaces, limitations, consequences, costs and risks.

The training is also designed to provide the skills of Engineering Technologists who may lead teams responsible for the implementation, operation, quality assurance, safety, management, and maintenance of projects, plant, facilities, or processes within specialist practice area(s) of the technology domain. Some Engineering Technologists may establish their own companies or may move into senior management roles in engineering and related enterprises, employing Professional Engineers and other specialists where appropriate.

The following competencies are outlined in the Advanced Diploma in Engineering Programs

#### 1. KNOWLEDGE AND SKILL BASE

- 1.1. Systematic, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the technology domain.
- 1.2. Conceptual understanding of the, mathematics, numerical analysis, statistics, and computer and information sciences which underpin the technology domain.
- 1.3. In-depth understanding of specialist bodies of knowledge within the technology domain.
- 1.4. Discernment of knowledge development within the technology domain.
- 1.5. Knowledge of engineering design practice and contextual factors impacting the technology domain.
- 1.6. Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the technology domain.

#### 2. ENGINEERING APPLICATION ABILITY

- 2.1. Application of established engineering methods to broadly-defined problem solving within the technology domain.
- 2.2. Application of engineering techniques, tools and resources within the technology domain.
- 2.3. Application of systematic synthesis and design processes within the technology domain.
- 2.4. Application of systematic approaches to the conduct and management of projects within the technology domain.

### 3. PROFESSIONAL AND PERSONAL ATTRIBUTES

- 3.1. Ethical conduct and professional accountability.
- 3.2. Effective oral and written communication in professional and lay domains.
- 3.3. Creative, innovative and pro-active demeanour.
- 3.4. Professional use and management of information.
- 3.5. Orderly management of self, and professional conduct.
- 3.6. Effective team membership and team leadership.

### Advanced Diploma in Engineering can be studied in the following specializations

- Advanced Diploma in Electrical Engineering
- Advanced Diploma in Mechanical Engineering
- Advanced Diploma in Civil Engineering
- Advanced Diploma in Renewable Energy Engineering
- Advanced Diploma in Computer Engineering / Advanced Diploma in Information Technology

### Advanced Diploma in Electrical Engineering

This program is designed with 60 credit points integrating 30 credit points Diploma in Electrical Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Electrical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Advanced Diploma in Electrical Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Electrical Power Circuits, Electrical Power System, Mathematics, Physics, AC/DC Machines, Control System, Power System Protection, Energy Efficiency, Project Management, Advanced Electrical Drafting, Power Transmission Line, Engineering Officer Competency Report.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

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### Advanced Diploma in Mechanical Engineering

This program is designed with 60 credit points integrating 30 credit points Diploma in Mechanical Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Mechanical Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Advanced Diploma in Mechanical Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Higher Mathematics, Fluid Dynamics, Automation & Robotics, Computer Aided Design & Manufacturing, Control System, Manufacturing, Mechatronics, Numerical Control, Pneumatics, Building Services. Air-conditioning Refrigeration

#### Detailed contents of the units



Detailed contents of the units can be viewed at the following links.

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Advanced Diploma in Civil Engineering**

This program is designed with 60 credit points integrating 30 credit points Diploma in Civil Engineering. The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Civil Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Civil Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Surveying, Road & Bridges, Structure, Estimating, Electrical Installation, Electrical Wiring, Air-conditioning Refrigeration, Engineering Mechanics

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](http://www.highlightcomputer.com/detailedcontent.htm)

<http://www.highlightcomputer.com/detailedcontent.htm>

### **Advanced Diploma in Renewable Energy Engineering**

This program is designed with 60 credit points integrating 30 credit points Certificate in Renewable Energy Course Completion Certificate which is delivered through the public seminars . The completion of this program can be articulated into 120 credit points Professional Diploma in Renewable Energy Engineering which is the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Renewable Energy Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

#### Study Areas

Advanced contents in Renewable Energy, Electrical Engineering, Basic Civil & Mechanical Engineering, Electrical Machines, Electronics Control

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

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### **Advanced Diploma in Computer Engineering/ Advanced Diploma in Information Technology**

This program is designed with 30 credit points integrating 30 credit points Diploma in Information Technology . The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Advanced Diploma in Computer Engineering can apply for Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Advanced Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Advanced Diploma in Computer Engineering, the students need to do Advanced Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

#### Study Areas

Organizational Behaviour, IT Networking, Information System Analysis & Design, Advanced Programming, Project Work

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### Advanced Diploma in Information Technology Course Outline

[http://www.filefactory.com/file/7dmpqlotj2fn/n/Advanced\\_Diploma\\_in\\_Information\\_Technology\\_pdf](http://www.filefactory.com/file/7dmpqlotj2fn/n/Advanced_Diploma_in_Information_Technology_pdf)

#### Electrical Engineering Course Outline

[http://www.highlightcomputer.com/Diploma\\_&\\_Advanced\\_Diploma\\_in\\_Electrical\\_Engineering\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_&_Advanced_Diploma_in_Electrical_Engineering_Course_outline.doc)

#### Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs

<http://www.highlightcomputer.com/detailedcontent.htm>

**Professional Diploma in Electrical Engineering**

**Professional Diploma in Mechanical Engineering**

**Professional Diploma in Civil Engineering**

**Professional Diploma in Computer Engineering**

**Professional Diploma in Renewable Energy Engineering**

#### **Professional Diploma in Engineering (Electrical+ Mechanical+ Civil+ Renewable Energy Engineering+ Computer Engineering & Information Technology) Course Outlines**

IQY Technical College's four years Professional Diploma in Engineering is designed to train the students to work as Engineering Technologist /Professional Engineer in wide ranges of industries.

It is designed at the same academic requirement as to Bachelor of Engineering degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Engineering can be awarded Bachelor of Engineering by the universities which are affiliated to IQY Technical College.

The program is designed to train the students to become Professional Engineers who are required to take responsibility for engineering projects and programs in the most far-reaching sense.

It is designed to provide the following competencies.

- To perform the reliable functioning of all materials, components, sub-systems and technologies used; their integration to form a complete, sustainable and self-consistent system; and all interactions between the technical system and the context within which it functions. The latter includes understanding the requirements of clients, wide ranging stakeholders and of society as a whole; working to optimise social, environmental and economic outcomes over the full lifetime of the engineering product or program; interacting effectively with other disciplines, professions and people; and ensuring that the engineering contribution is properly integrated into the totality of the undertaking.
- To do interpreting technological possibilities to society, business and government; and for ensuring as far as possible that policy decisions are properly informed by such possibilities and consequences, and that costs, risks and limitations are properly understood as the desirable outcomes.
- To bring knowledge to bear from multiple sources to develop solutions to complex problems and issues, for ensuring that technical and non-technical considerations are properly integrated, and for managing risk as well as sustainability issues. While the outcomes of engineering have physical forms, the work of
- To train the students to become predominantly intellectual in nature. In a technical sense, Professional Engineers are primarily concerned with the advancement of technologies and with the development of new technologies and their applications through innovation, creativity and change. Professional Engineers may conduct research concerned with advancing the science of engineering and with developing new principles and technologies within a broad engineering discipline.
- To contribute to continual improvement in the practice of engineering, and in devising and updating the codes and standards that govern it.

- To take a particular responsibility for ensuring that all aspects of a project are soundly based in theory and fundamental principle, and for understanding clearly how new developments relate to established practice and experience and to other disciplines with which they may interact. One hallmark of a professional is the capacity to break new ground in an informed, responsible and sustainable fashion.

The program is also designed to provide the skills required for the graduated to lead or manage teams appropriate to these activities, and may establish their own companies or move into senior management roles in engineering and related enterprises.

### **COMPETENCIES**

#### **1. KNOWLEDGE AND SKILL BASE**

- 1.1. Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline.
- 1.2. Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline.
- 1.3. In-depth understanding of specialist bodies of knowledge within the engineering discipline.
- 1.4. Discernment of knowledge development and research directions within the engineering discipline.
- 1.5. Knowledge of engineering design practice and contextual factors impacting the engineering discipline.
- 1.6. Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline.

#### **2. ENGINEERING APPLICATION ABILITY**

- 2.1. Application of established engineering methods to complex engineering problem solving.
- 2.2. Fluent application of engineering techniques, tools and resources.
- 2.3. Application of systematic engineering synthesis and design processes.
- 2.4. Application of systematic approaches to the conduct and management of engineering projects.

#### **3. PROFESSIONAL AND PERSONAL ATTRIBUTES**

- 3.1. Ethical conduct and professional accountability.
- 3.2. Effective oral and written communication in professional and lay domains.
- 3.3. Creative, innovative and pro-active demeanour.
- 3.4. Professional use and management of information.
- 3.5. Orderly management of self, and professional conduct.
- 3.6. Effective team membership and team leadership.

### **Professional Diploma in Engineering can be studied in the following specializations**

- Professional Diploma in Electrical Engineering
- Professional Diploma in Mechanical Engineering

- Professional Diploma in Civil Engineering
- Professional Diploma in Renewable Energy Engineering
- Professional Diploma in Computer Engineering / Professional Diploma in Information Technology

### **Professional Diploma in Electrical Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Electrical Engineering. The completion of this program can be awarded Professional Diploma in Electrical Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Electrical Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### **Study Areas**

Mathematics, Engineering Mechanics & Thermodynamics, Electrical Circuit Analysis, Electro-magnetics & Electrical Machines, Control System, Power System, Electronics, Telecommunication, Industrial Management, Computer Programming, Computer Network, Engineering Project, Building Services, Competency Demonstration Report Writing

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Bachelor of Engineering (Electrical Engineering) Course Outline**

<http://www.filefactory.com/file/5ftv3w6yjcrl/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

#### **Detailed Contents of BE.B Bus& B App Sc (IT) Programs**

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

### **Professional Diploma in Mechanical Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Mechanical Engineering. The completion of this program can be awarded Professional Diploma in Mechanical Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Mechanical Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### **Study Areas**

Mathematics, Engineering Mechanics & Thermodynamics, Industrial Management, Computer Programming, Computer Network, Engineering Project, Building Services, ,Air-conditioning & Refrigeration, Machine Design, Mechanical Instrumentation, Production Technology, Engineering Materials, Maintenance Engineering , Mechanical Power Generation, Applied Electrical/Electronics & Control System, Competency Demonstration Report Writing

#### **Detailed contents of the units**

Detailed contents of the units can be viewed at the following links.

#### **Bachelor of Engineering (Mechanical Engineering-Mechatronics) Course Outline**

[http://www.filefactory.com/file/113wg8regbuh/n/Bachelor\\_of\\_Applied\\_Engineering\\_Mechanical-Mechatronics\\_Course\\_Outline.doc](http://www.filefactory.com/file/113wg8regbuh/n/Bachelor_of_Applied_Engineering_Mechanical-Mechatronics_Course_Outline.doc)

#### **Bachelor of Applied Engineering (Final Year Mechanical Design) Course Outline**

[http://www.filefactory.com/file/7greuqxlvyh/n/Graduate\\_Diploma\\_of\\_Mechanical\\_Engineering\\_B\\_App\\_Eng\\_Mech\\_Course\\_Outline.doc](http://www.filefactory.com/file/7greuqxlvyh/n/Graduate_Diploma_of_Mechanical_Engineering_B_App_Eng_Mech_Course_Outline.doc)

#### **Detailed Contents of BE.B Bus& B App Sc (IT) Programs**

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

### **Professional Diploma in Civil Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Civil Engineering. The completion of this program can be awarded Professional Diploma in Civil Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College. The graduates of Professional Diploma in Civil Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### Study Areas

Mathematics, Engineering Mechanics & Thermodynamics, Industrial Management, Computer Programming, Building Construction, Estimating, Fluid Mechanics, Structural Engineering, Reinforce Concrete, Timber Engineering, Soil & Rock Mechanics, Environmental Engineering, Road & Bridges, Building Service Engineering, Traffic Engineering, Surveying, Water Supply Sanitation, Engineering Competency Demonstration Report Writing.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Bachelor of Engineering \(Civil Engineering-Building Services\) Course Outline](http://www.filefactory.com/file/npjw5ekau5/Bachelor%20of%20Applied%20Engineering%20%28Civil-Building%20Services%29%20Course%20Outline.doc)

<http://www.filefactory.com/file/npjw5ekau5/Bachelor%20of%20Applied%20Engineering%20%28Civil-Building%20Services%29%20Course%20Outline.doc>

#### [Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline](http://www.filefactory.com/file/37twg21wx97z/Graduate%20Diploma%20of%20Civil%20Engineering%2BB%20App%20Eng%20%28Civil%29%20Course%20Outline.doc)

<http://www.filefactory.com/file/37twg21wx97z/Graduate%20Diploma%20of%20Civil%20Engineering%2BB%20App%20Eng%20%28Civil%29%20Course%20Outline.doc>

#### Detailed Contents of BE, B Bus& B App Sc (IT) Programs

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

#### **Professional Diploma in Renewable Energy Engineering**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Renewable Energy Engineering. The completion of this program can be awarded Professional Diploma in Renewable Energy Engineering together with the award of Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

This program explores the way to make the best use of renewable energy technologies including solar thermal systems, photovoltaics, wind and biomass. Renewable Energy Engineering borrows much of its structure from some other areas of engineering, such as electrical engineering and photovoltaic engineering. It encompasses a broad range of renewable energy technologies including electricity generation from solar thermal systems, photovoltaics, wind and biomass. It also covers solar architecture and energy efficient housing design

The graduates of Professional Diploma in Renewable Energy Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologists or ASEAN Engineer.

#### Study Areas

Foundation Studies in Renewable Energy and Sustainability, Grid Connected Photovoltaic Power Systems, Solar and Thermal Energy Systems, Energy Storage Systems, Renewable Energy Resource Analysis, Wind Energy Conversion Systems, Energy System Efficiency, Mathematics & Physics, Engineering Materials, Civil & Mechanical Engineering, Electrical Engineering, Electrical Machines, Electronics Control, Design & Management, Project, Engineering Competency Demonstration Report Writing.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

#### [Renewable Energy Engineering Public Seminar + Diploma& Bachelor of Engineering \(Renewable Energy\)](http://www.highlightcomputer.com/re.pdf)

<http://www.highlightcomputer.com/re.pdf>

#### **Professional Diploma in Computer Engineering/ Professional Diploma in Information Technology**

This program is designed with 120 credit points integrating 60 credit points Advanced Diploma in Information Technology . Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated IQY Technical College.

The graduates of Professional Diploma in Computer Engineering can apply for Fellow of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technologist or ASEAN Engineer.

The graduates of Professional Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Professional Diploma in Computer Engineering, the students need to do some Bachelor of Engineering (Electrical) units at the same time.

#### Study Areas

##### Computer

Computer Programming, Computer Network, Software Engineering, Artificial Intelligence, Telecommunication Engineering, Project Management,

##### Electrical/Electronics

Electrical Engineering, Analog & Digital Control, Control System, Engineering Management

Engineering Competency Demonstration Report Writing

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

##### Detailed Contents of BE.B Bus& B App Sc (IT) Programs

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

##### Bachelor of Engineering (Electrical Engineering) Course Outline

<http://www.filefactory.com/file/5ftv3w6yjcrr/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

## **Diploma in information Technology**

### Diploma in Information Technology

This course will provide the students with the skills and knowledge to manage information and communications technology (ICT) support in small-to-medium enterprises using a wide range of general ICT technologies. The students will learn skills to support computer systems, involving people, hardware, software and procedures in a networked environment. They will also learn skills that enable them to maintain and guide teams and manage projects.

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology & 120 credit points Professional Diploma in Information Technology or Professional Diploma in Computer Engineering which is the award of Bachelor of Applied Science (Information Technology)/Bachelor of Engineering degree by the universities affiliated to IQY Technical College.

The graduates of Diploma in Computer Engineering can apply for Associate Member of Singapore Institute of Engineering Technologists & then leading to the professional status of ASEAN Engineering Technician.

The graduates of Diploma in Information Technology can apply for membership of International Institute of Science Engineering & Management.

To be awarded Diploma in Computer Engineering, the students need to do Diploma in Information Technology & Diploma in Electrical Engineering at the same time.

#### Study Areas

IT Fundamental, Computer Application, Computer Programming, System Analysis, Software Engineering, IT Project, Business Information System

##### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

##### Diploma in Information Technology Course Outline

[http://www.highlightcomputer.com/Diploma\\_in\\_Information\\_Technology\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

##### Electrical Engineering Course Outline

[http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course\\_outline.doc](http://www.highlightcomputer.com/Diploma & Advanced Diploma in Electrical Engineering Course_outline.doc)

##### Detailed Contents of Diploma + Advanced Diploma in Engineering, IT, Management & Business Programs

<http://www.highlightcomputer.com/detailedcontent.htm>

## Advanced Diploma in information Technology

### Advanced Diploma in Information Technology

The Advanced Diploma in Information Technology provides the students with high level Information and Communications Technology (ICT) process improvement in senior ICT roles within organisations. The qualification builds on a base core of management competencies, with specialist and general elective choices to suit particular ICT and business needs, especially in the areas of knowledge management and systems development.

This qualification is suited to dynamic leaders who wish to broaden their business perspective, enhance management capability and strengthen leadership behaviour. The focus is on managing the strategic direction of a business through leadership, financial management and comprehensive business operations. It is ideal for those in senior management positions with responsibility for strategic leadership across the business or in specialist areas.

The following competencies are integrated in this course

- Provide leadership across the organisation
- Manage employee relations
- Develop and implement a business plan
- Manage organisational change
- Manage innovation and continuous improvement
- Manage risk
- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems at technologist level.
- to be project-focused with studies in programming languages, algorithms and information structure and develop the ability to process data or information in order to solve problems at technologist level.
- to provide team dynamics, presentation skills and project management at middle class manager level.
- The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology which is the award of Bachelor of Applied Science (Information Technology) or Bachelor of Information Technology degree by the universities affiliated to IQY Technical College.
- [Detailed contents of the units](#)



Detailed contents of the units can be viewed at the following links

[Advanced Diploma in Information Technology Course Outline.](#)

[http://www.highlightcomputer.com/Advanced Diploma in Information Technology.pdf](http://www.highlightcomputer.com/Advanced_Diploma_in_Information_Technology.pdf)

[Diploma in Information Technology Course Outline](#)

[http://www.highlightcomputer.com/Diploma in Information Technology Course outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Management Course Outline](#)

[http://www.highlightcomputer.com/Diploma of Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

## **Professional Diploma in Information Technology**

IQY Technical College's four years Professional Diploma in Information Technology is designed to train the students to work as computing professionals, to use ICT to be a better scientist, or to empower themselves to better understand the technology behind many of today's careers. Increasingly, employers see an ICT qualification as a sign of academic well-roundedness. ICT drives innovations such as the human genome project, vaccine research, environmental modelling. Emerging areas include electronic security, earth simulation (related to the mining boom) and bioinformatics. Independent job market surveys show that demand for graduates is escalating, along with salaries. Industry is concerned about a shortage of talent.

It is designed at the same academic requirement as to Bachelor of Information Technology degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Engineering can be awarded Bachelor of Applied Science (Information Technology) & Bachelor of Information Technology by the universities which are affiliated to IQY Technical College.

The graduates can apply for membership of International Institute of Science Engineering & Management.

The program is designed to train the students to become ICT Professionals who are required to take responsibility for ICT projects and programs in the most far-reaching sense.

It is designed to provide the following competencies.

- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems.
- to be project-focused with studies in programming languages, algorithms and information structure and develop the ability to process data or information in order to solve problems.
- to provide team dynamics, presentation skills and project management.



See the [course list](#) for courses that can be studied as part of the Bachelor of Information Technology.

## Study Areas

- [Computer Systems and Networks](#)
- [Enterprise Information Systems](#)
- [Human-Computer Interaction](#)
- [Software Design](#)
- [Software Information Systems](#)
- [Electrical Engineering for the award of Professional Diploma in Computer Engineering](#)

### [Detailed contents of the units](#)

Detailed contents of the units can be viewed at the following links.

### [Bachelor of Applied Science \(Computer Science & Computer Technology\)](#)

[http://www.highlightcomputer.com/B\\_App\\_Sci\\_\(CS&\\_CT\)\\_Course\\_outline.pdf](http://www.highlightcomputer.com/B_App_Sci_(CS&_CT)_Course_outline.pdf)

### [Bachelor of Engineering \(Electrical Engineering\) Course Outline](#)

<http://www.filefactory.com/file/5ftv3w6yjcrr/BACHELOR%20OF%20APPLIED%20ENGINEERING.doc>

### [Professional Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline](#)

[http://www.highlightcomputer.com/Graduate\\_Diploma\\_of\\_Engineering\\_Practice\\_Computer\\_ControlUpdate%5b1%5d.doc](http://www.highlightcomputer.com/Graduate_Diploma_of_Engineering_Practice_Computer_ControlUpdate%5b1%5d.doc)

### [Detailed Contents of BE.B Bus& B App Sc \(IT\) Programs](#)

[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)

## Diploma in Management

IQY Technical College's one year Diploma in Management is designed to train the students to work as middle class managers in wide ranges of industries & companies.

This program is designed with 30 credit points integrating 15 credit points Certificate in Information Technology or pure management stream. The completion of this program can be articulated into 60 points Advanced Diploma in Information Technology Management & 120 credit points Professional Diploma in Business Management which is the award of Bachelor of Business Management degree by the universities affiliated to IQY Technical College.

The graduates can apply for membership of The Institute of Professional Business and Technical Managers.

It is designed to provide the following competencies.

- To explore the factors for achieving success with a business, management is becoming increasingly challenging.

- To provide the planning on a [management career](#).
- To provide the understanding of the leadership process will form the foundation to build the management skills.
- To be able to effectively manage others to perform at their best while focusing on the growth of a business.
- This course can turn your management experience into a formal qualification, or it can up-skill you to get further ahead in your career.

This course will also train the students to develop a project plan, manage budgets and seek opportunities for further [business](#) improvement. The students will gain knowledge on how to liaise with stakeholders and ensure team effectiveness. This diploma also addresses the multiple challenges faced by managers in today's rapidly changing business environment and provides solutions and strategies to work under various business conditions.

This course is fully flexible with no assessment due dates or classes to attend. Structure your learning around students' current commitments and take the next step in their [business management](#) career.

## Potential career outcomes

- business manager
- team leader
- facilities coordinator
- department manager

### Detailed contents of the units

Detailed contents of the units can be viewed at the following links.

[Management Course Outline](#)

[http://www.highlightcomputer.com/Diploma\\_of\\_Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

[Detailed Contents of Diploma + Advanced Diploma in Engineering, IT , Management & Business Programs](#)

<http://www.highlightcomputer.com/detailedcontent.htm>

## Advanced Diploma in Management

### Advanced Diploma of Information Technology Management

The Advanced Diploma in Information Technology Management provides the students with high level Information and Communications Technology (ICT) process improvement in senior ICT roles within organisations. The qualification builds on a base core of management competencies, with specialist and general elective choices to suit particular ICT and business needs, especially in the areas of knowledge management and systems development.

This program is designed with 60 credit points which is integrated with 30 points from Diploma in Information Technology or Diploma in Management.

- The students who complete Diploma in Information Technology attend the Diploma in Management units together with Advanced Diploma in Information Technology units and then can be graduated with Advanced Diploma in Information Technology Management.
- The students who complete Diploma in Management attend the Diploma in Information Technology units together with Advanced Diploma in Information Technology units and then can be graduated with Advanced Diploma in Information Technology Management.

It is designed to provide the following competencies.

The following competencies are integrated in this course

- Provide leadership across the organisation
- Develop and implement strategic plans
- Manage employee relations
- Develop and implement a business plan
- Manage organisational change
- Manage finances
- Manage innovation and continuous improvement
- Manage risk
- to builds on a solid foundation in software and hardware and through flexible study plans allows students to specialise if desired.
- to include bioinformatics, computer systems and networks, enterprise information systems, human-computer interaction, software design and software information systems at technologist level.
- to provide team dynamics, presentation skills and project management at middle class manager level.

The completion of this program can be articulated into 60 of 120 credit points Professional Diploma in Information Technology or Professional Diploma in Business Management which is the award of Bachelor of Applied Science (Information Technology), Bachelor of Information Technology or Bachelor of Business Management degree by the universities affiliated to IQY Technical College.

#### Detailed contents of the units

Detailed contents of the units can be viewed at the following links

[Advanced Diploma in Information Technology Course Outline.](#)

[http://www.highlightcomputer.com/Advanced\\_Diploma\\_in\\_Information\\_Technology.pdf](http://www.highlightcomputer.com/Advanced_Diploma_in_Information_Technology.pdf)

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[Diploma in Information Technology Course Outline](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)  
[http://www.highlightcomputer.com/Diploma\\_in\\_Information\\_Technology\\_Course\\_outline.doc](http://www.highlightcomputer.com/Diploma_in_Information_Technology_Course_outline.doc)

[Management Course Outline](http://www.highlightcomputer.com/Diploma_of_Management.doc)  
[http://www.highlightcomputer.com/Diploma\\_of\\_Management.doc](http://www.highlightcomputer.com/Diploma_of_Management.doc)

## Professional Diploma in Management

## **Professional Diploma in Business Management**

Professional Diploma in Business (Management) is a highly innovative and flexible program that is designed to develop professional capabilities for tomorrow's managers and business leaders.

As well as providing the operational skills and knowledge required to manage successful organisations, students also participate in workplace learning subjects that provide real-life, practical experience.

An optimum blend of theory and practice is offered, with a combination of subjects to develop both soft skills for working with people and hard skills directed at areas in operations and project management.

This course is designed with 120 Credit points integrating 60 Points Advanced Diploma in Information Technology Management.

It is designed at the same academic requirement as Bachelor of Business Management degree but IQY Technical College is operating as a vocational education & training college not as a university, the award is to be described as Professional Diploma. The graduates of the Professional Diploma in Business (Management) can be awarded Bachelor of Business by the universities which are affiliated to IQY Technical College.

The graduates of Professional Diploma in Business (Management) can apply for Membership of Institute of Professional Business and Technical Managers.

## Course structure

[Bachelor of Business /Bachelor of Applied Management Course Outline](http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc)  
<http://www.filefactory.com/file/3dcrz90tirvh/Dip%2BAdv%20Dip%2BB%20Bus%20S%20Course%20Outline.doc>

[Detailed Contents of BE.B Bus& B App Sc \(IT\) Programs](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)  
[http://highlightcomputer.com/B%20E+B%20App%20Sc\(IT\)+B%20Bus%20Course%20Detailed%20Contents.htm](http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm)



**Mon's Group Sydney** (Education Service-Engineering, IT & Management) (ABN 96219389279)

Trading as IQY Technical College

[www.highlightcomputer.com/mongroupsyzdney1.htm](http://www.highlightcomputer.com/mongroupsyzdney1.htm)

Highlight Computer Group affiliated to St Clements University Higher Education School-Niue, S.T.C Technological University of British West Indies and IQY Technical College Online Learning System

[www.highlightcomputer.com](http://www.highlightcomputer.com)

[www.stclements.edu](http://www.stclements.edu)

[www.stclements.edu/myanmar](http://www.stclements.edu/myanmar)

[www.stclementstu.com](http://www.stclementstu.com)

Arrangements among Myanmar Vocational Training Certificate/IQY Technical College/St Clements

University and STC Technological University

[www.facebook.com/iqytechnicalcollege](https://www.facebook.com/iqytechnicalcollege)

**About the IQY Technical College & Highlight Computer Group**

IQY Technical College of Highlight Computer Group teaches St Clements University –Higher Education School-Niue & S.T.C Technological University of British West Indies' Diploma/ Advanced Diploma and Bachelor Degree programs in Electrical ,Mechanical, Civil, Automotive & Marine Engineering, Information Technology and Management courses to the students of Myanmar at the price affordable to average working class people of Myanmar for development of Myanmar.

IQY Technical College is also an Authorized Training Centre of Singapore Institute of Engineering Technologists & it's Engineering Qualification awards are recognized in Singapore

Click [HERE](#) to access the course information back up site

# IQY QUALIFICATIONS FRAMEWORK

[www.highlightcomputer.com/iqyqualificationsframework.pdf](http://www.highlightcomputer.com/iqyqualificationsframework.pdf)

<a href="#">Program Enrolment</a>	<a href="#">Contact</a>	<a href="#">Curriculum Engineering IT Management</a>	<a href="#">Syllabus Engineering IT Management</a>	<a href="#">Renewable Energy Programs</a>	<a href="#">Masters Degree Programs</a>	<a href="#">Internationally Recognised Programs + Advertisements</a>	<a href="#">Advertisements</a>	<a href="#">Pre-vocational Programs</a>
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[Professional Engineer Support Masters Degree Enrolment Form](#)

[Enrolment Form Fill this form](#)

[Questions & Answers](#)

[IQY Structure](#)

[Contacts:](#)

(Australia)

[Head Office Address](#)

Daw Hla Myat Mon-Phone: 61-424533344  
PO BOX 227 Marrickville, NSW 1475  
Sydney, Australia

**E mail**

iqytechnicalcollege@gmail.com

(Yangon)

**E –Learning / Tutoring / Trade Training Centre Addresses**

**South Okkalapa**

**Address 1**

No 307 (B) Thura 2 Street, 9 Ward, South Okkalapa Township, Yangon

Please See MAP- [www.highlightcomputer.com/iqymap.pdf](http://www.highlightcomputer.com/iqymap.pdf)

**Contact: 09-448009297/ 09772644954 & 09402679529**

**Address 2**

No 703 Myitta Street, 12 Ward , South Okkalapa Township, Yangon

**Contact: U Kyaw Zin Thet Mobile: 09772644954 & 09402679529**

**E mail**

Ukyawzinthet547@gmail.com

**Yankin**

**Contact 0973147176**

**Address-Building 217 Room 9 Yankin, Yangon**

**Special Training & Resources Centre / E Library**



No 33 , Third Floor Left, Dagon Thiri Street, Kyauk-myaung, Tamwe Township, Yangon  
Please See MAP- [www.highlightcomputer.com/iqymap1.pdf](http://www.highlightcomputer.com/iqymap1.pdf)

[www.highlightcomputer.com/iqymap.pdf](http://www.highlightcomputer.com/iqymap.pdf)

### Yazana Garden City, Dagon Seik-Kan Township

Building 28, Room 404 , 5<sup>th</sup> Floor, 8<sup>th</sup> Street, Group (B), 94 Ward,  
Yuzana Garden City, Dagon Seik-Kan Township

## COMPUTER TRAINING + COMPUTER UNIVERSITIES COURSES STUDY SUPPORT

### IT Training Kyauk-Myaung Centre Address

**Contact: U Htin Aung -----Mobile: 09783970071**

No 23 ( 6<sup>th</sup> Floor) Myothit 1 st Street, Kyauk-myaung  
Tamwe Township, Yangon, Myanmar

### E mail

highlightcomputergroup@gmail.com

(Mandalay)

## IQY Mandalay Technical College

Swe Tha Har Plantation Garden

Ayeyarhtun 1 st Ward, Near Nagani Pagoda, Chanmyatharsi Township, Mandalay

### **Contact**

Daw Soe Soe Aung---Mobile: **09976731167**

E mail- **soesoeaung927@gmail.com,**

Daw Aye Myat Soe—Mobile **09402612805**

E mail- **ayemyat2014@gmail.com**,

**Overseas Contact**

iqytechnicalcollege@gmail.com

Phone: 61-424533344

**PO BOX 227, Marrickville, NSW 1475, Sydney, Australia**

**Affiliated Training Centres / Colleges/ SchoolsAddresses**

**Engineering Software Applications + English Language Training**

**Trust Training Center**

Building 6, Room 20 (Top Floor of a four storey building), Lanthit Yeikthar Housing, Phonegyi Road (Sanpya), Lanmadaw Township, Yangon.

**EduGate Training Center**

No.96,1st Floor, Hlae-Dan Street, Lanmadaw Township, Yangon

[www.elearning-myanmar.com](http://www.elearning-myanmar.com)

<https://www.facebook.com/Elearning.mm>

**Contact**

U Aung Myint Myat (Andrew Aung)

E-mail : **andrewmyintmyat@gmail.com**

**Mobile:** 09422540237

**IQY Mandalay Technical College's affiliated school**

**Aung Tharaphu Education House**

**In front of SHS 34 (Bonekyaw School), under U Phwar Bridge,  
Highway to Sagaing, Mandalay**

**+**

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# International Recognition of the Qualifications Awarded by IQY Technical College

Recognition Policy of IQY Technical College of Highlight Computer Group & it's networked group of employers in Myanmar for international qualifications

(1) **Singapore Institute of Engineering Technologists** [www.siet.org.sg](http://www.siet.org.sg) recognises the qualifications awarded by IQY Technical College of Highlight Computer Group as follows

Please see <http://www.iqytechnicalcollege.com/sietatc.htm>

Award of IQY Technical College	Minimum Age	Work Experience	Recognition by Singapore Institute of Engineering Technologists (SIET)	Types of works can be performed in Singapore & ASEAN Countries
Diploma in Engineering	23	3 Years	Associate Member (AMSIET)	Engineering Technician
Advanced Diploma in Engineering	25	5 Years	Member (MSIET)	Engineering Technologists/ Engineering Officer/ Associate Engineer/ Site Engineer
Bachelor of Engineering/ Professional Diploma in Engineering	30	8 Years (5 years at Senior Engineer Level)	Fellow (FSIET)	Professional Engineer/ Senior Engineer
Graduates of Diploma/ Advanced Diploma & Bachelor of Engineering/ Professional Diploma in Engineering	No limit	Recent Graduate with no experiences	Associate (Associate SIET)  Upon obtaining the experiences, the higher grades can be transferred.	Graduate Engineering Technician/ Graduate Technologist Graduate Engineer Junior Engineer

With SIET Qualifications, the professional qualifications in UK, USA, other ASEAN Countries can be achieved.

(2) **St Clements University Higher Education School -Niue**

[www.stclements.edu](http://www.stclements.edu)

The same level of award can be issued to the successful candidates

(3) **St Clements Technological University of British West Indies**

[www.stclememtstu.com](http://www.stclememtstu.com)

The same level of award can be issued to the successful candidates

IQY Technical College is accredited by The Institution of Professional Engineers ,Myanmar (IPEM) which issue various engineer certificates in line with international engineering system.

[www.highlightcomputer.com/ipem.htm](http://www.highlightcomputer.com/ipem.htm)

**The International Federation of Engineering Education Societies-IFEES-USA  
IFEES Membership of IPEM**

**International Federation of Engineering Education Societies (IFEES) Membership of  
IPEM**

**Membership on IFEES Website (Elected in 2018)**

**Membership on IFEES Website  
(updated on 11 October 2018)**

**2018 IFEES Secretariat Report that includes  
IPEM Election on Page 5**

**The Institution of Professional Engineers-Myanmar (IPEM)**

**The Institution of Professional Engineers Myanmar NSW Australia Chapter Registration as Incorporated  
Association (INC1901087)**

# Registration Certificate

**Institute of Computer Engineers of the Philippines Affiliation**

## Certificate of Partnership

**World Federation of Engineering Organizations WFEO Membership of IPEM**

## Election Notice

WFEO's Acceptance E mail sent to IPEM

IPEM to WFEO Money Transfer Evidence

WFEO Membership of IPEM

**Myanmar Branch of The Society of Professional Engineers (International) (SPE)**

<http://www.thespeukinternational.org/internationalapplication.htm>

### **(4) Institute of Professional Business and Technical Managers (UK)**

Award of IQY Technical College	Recognition by Institute of Professional Business and Technical Managers	Equivalency
Diploma in Management	Technician Member	Applicants should have completed one of the following: NQF Level 5 Specialised Technical Diploma but lacks the management education or experience to be awarded Associate Membership.
Advanced Diploma in Management	Associate Member	NQF Level 5 Specialised Technical Management or Business Diploma, appropriate City and Guilds course, Business and Technology Education Council (BTEC), Scottish Vocational and Educational Training (SCOTVEC) or Scottish Qualifications Awards (SQA) awards.
Bachelor of Business/ Professional Diploma in Management	Member	Applicants should have completed one of the following: Specialised Bachelor of Technical Management or Business Degree, NQF Level 6, appropriate

		City and Guilds course, BTEC or SCOTVEC/SQA awards. Also those with relevant professional qualifications and/or appropriate experience as a specialist manager may be accepted.
<b>Bachelor of Business/ Professional Diploma in Management PLUS Work Experiences</b>	<b>Fellow</b>	Applicants should have completed one of the following: Specialised Master of Technical Management or Business Degree or NQF Level 7 chartered, professional and senior management courses. Senior professionals with at least five years experience holding chartered professional qualifications may also be accepted.

### (5) International Institute of Science, Engineering and Management (Computer Science Branch)

#### Member of Institute of Science, Engineering and Management

Award of IQY Technical College	Recognition by International Institute of Science, Engineering and Management	Equivalency
Diploma in Information Technology	Associate	Applicants should have completed one of the following: NQF Level 5 Specialised Information Technology Diploma but lacks the experience to be awarded Associate Membership.
Advanced Diploma in Information Technology	Associate Member	NQF Level 5 Specialised Technical Management or IT Diploma, appropriate City and Guilds course, Business and Technology Education Council (BTEC), Scottish Vocational and Educational Training (SCOTVEC) or Scottish Qualifications Awards (SQA) awards.
Bachelor of Applied Science (Information Technology )/ Professional Diploma in Information Technology	Member	Applicants should have completed one of the following: Specialised Bachelor of Information Technology or Business Degree, NQF Level 6, appropriate City and Guilds course, BTEC or SCOTVEC/SQA awards. Also those with relevant professional qualifications and/or appropriate experience as a specialist manager may be accepted.
Bachelor of Applied Science (Information Technology )/ Professional Diploma in Information Technology PLUS Work Experiences	Fellow	Applicants should have completed one of the following: Specialised Master of Technical Management or Information Technology Degree or NQF Level 7 chartered, professional and senior management / IT courses. Senior professionals with at least five years experience holding chartered professional qualifications may also be accepted.

(6)

IQY Technical College of IQY St Clements Education Group and Highlight Computer Group (Myanmar) is an authorized training centre of The Institution of Professional Engineers Myanmar (IPEM) organized by Myanmar Citizen and Ex-Myanmar Citizen Engineers which is an International Professional Organization and Associate Member of World Federation of Engineering Organizations (WFEO)

(7)

### MEMBERS OF IQY-ST CLEMENTS EDUCATON GROUP

**(1) St Clements University Myanmar College**

[www.stclements.edu/myanmar](http://www.stclements.edu/myanmar)

[www.iqytechnicalcollege.com/scumyanmar.htm](http://www.iqytechnicalcollege.com/scumyanmar.htm)

Certificate of Accreditation

**(2) STC Technological University-International Engineering**

[www.stctechnologicaluniversity.blogspot.com](http://www.stctechnologicaluniversity.blogspot.com)

[www.stclementstu.com](http://www.stclementstu.com)

Certificate of Accreditation

**(3) IQY Technical College**

[www.iqytechnicalcollege.blogspot.com.au](http://www.iqytechnicalcollege.blogspot.com.au)

Certificate of Accreditation



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Certificate of Accreditation

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[www.stclementstu.com](http://www.stclementstu.com)

Certificate of Accreditation

**(3) IQY Technical College**

[www.iqytechnicalcollege.blogspot.com.au](http://www.iqytechnicalcollege.blogspot.com.au)

Certificate of Accreditation

## **SINGAPORE INSTITUTE OF ENGINEERING TECHNOLOGISTS APPLICATION**

**[www.highlightcomputer.com/sietapplication.htm](http://www.highlightcomputer.com/sietapplication.htm)**

### **ONLINE FORM**

**<http://www.emailmeform.com/builder/form/bkU0YvIAF13nQ613>**

### **PRINTED FORM**

**<http://www.highlightcomputer.com/SIET-Application-form-Jan2013.pdf>**

### **MEMBERSHIP GRADES**

**[http://www.highlightcomputer.com/EMBERSHIP\\_GRADES.pdf](http://www.highlightcomputer.com/EMBERSHIP_GRADES.pdf)**

### **ASEAN Engineering Technologists Application**

**[www.highlightcomputer.com/AER.pdf](http://www.highlightcomputer.com/AER.pdf)**

### **Associate Application Form**

**[www.highlightcomputer.com/SIET Student Membership Application Form.pdf](http://www.highlightcomputer.com/SIET_Student_Membership_Application_Form.pdf)**

# IQY TECHNICAL COLLEGE

## List of GRADUATES

### FIRST Convocation

## IQY Notice Board for Students

### Documents to attach with your award

## Course COMPLETION PROCESS

International+ Myanmar Recognition of IQY Graduates

IPEM Graduate Membership Certificate

IQY Technical College Registration in Australia

Singapore INSTITUTE of Engineering Technologists Recognition Diploma

Singapore INSTITUTE of Engineering Technologists Recognition ADVANCED Diploma

Singapore INSTITUTE of Engineering Technologists Recognition PROFESSIONAL Diploma

The SOCIETY OF PROFESSIONAL ENGINEERS UK AND INTERNATIONAL RECOGNITION

IQY Diploma +Advanced Diploma to Associate Degree/Bachelor of Work Studies Conversion free Online Program Enrolment

<https://www.emailmeform.com/builder/form/EXNv0c12x14ffkl0c4cdu64l>

International Vocational Education and Training Association (IVETA-USA) Membership of IQY Technical College

IVETA Recognized Programs

# **SINGAPORE INSTITUTE OF ENGINEERING TECHNOLOGISTS** **APPLICATION**

## **Fitness TRAINING**

### **New Generation MYANMAR Engineers**

#### **Employment Service**

Resume preparation, engineering and technical / trade job entry preparation & practical training and reference services are available for Highlight Computer Group students.

**The Institution of Professional Engineers Myanmar & Myanmar Professional Engineers Register**

#### **Engineering Job Competencies**

#### **Information Technology Job Competencies**

#### **Management Job Competencies**

### **APPRENTICES AND TRAINEES**

<http://www.iqytechnicalcollege.com/Form 189 IQY Apprentice & Trainee Program.htm>

<http://www.iqytechnicalcollege.com/Form 189 IQY Apprentice & Trainee Program.pdf>

#### **Engineers Job Group**

<https://www.facebook.com/groups/2128693697196512/>



[www.myanmarjobsdb.com/](http://www.myanmarjobsdb.com/)

[www.myanmarjobseekers.com](http://www.myanmarjobseekers.com)

<https://www.dreamjobmyanmar.com/>

<https://www.jobnet.com.mm/>

[www.myjobs.com.mm/](http://www.myjobs.com.mm/)

<http://career.com.mm/>

## **Jobs in Myanmar 2**

Qualifications and competencies requirements for International Professional, Technical and Trade Jobs

[Australia & New Zealand Classifications of Occupations Dictionary](#)

[Australia & New Zealand Classifications of Occupations Dictionary \(Revised\)](#)

Highlight Computer Group, IQY Technical College provides the training to attain the competencies requirements for International Professional, Technical and Trade Jobs & not only limited to achievement of certificates.

## **Singapore Jobs**

## **ASEAN Jobs**

## **Jobs in Middle East**

## **Jobs in Pacific Islands**

## **Australia and New Zealand Jobs**

## **Migration to Australia as Skilled Trade Person**

## **Migration to New Zealand as Skilled Trade Person**

## **Skilled Tradesman Training for migration includes the followings**

**\*Providing the skilled Training at Australian standard**

**\*Mentoring support during 3 to 4 years work experience gained locally**

**\*Providing the assistance to submit the Trade Skills Assessment**

## **AUSTRALIAN JOB SITES**

[www.jobsearch.gov.au/](http://www.jobsearch.gov.au/)

[www.seek.com.au/](http://www.seek.com.au/)

[www.careerone.com.au/](http://www.careerone.com.au/)

[www.jobsearch.com.au/](http://www.jobsearch.com.au/)

[www.mycareer.com.au/](http://www.mycareer.com.au/)

[www.theaustralian.com.au/careers](http://www.theaustralian.com.au/careers)

<https://www.jobbydoo-au.com>

[www.sydneytafe.edu.au/careersconnect](http://www.sydneytafe.edu.au/careersconnect)

## **JOB HERO**

## **Study System**

The students who enrol the program of study can download the study materials from the online links provided by the tutor, watch the teaching videos, view the class teaching records, listen to the explanation audio files, study the further learning materials and submit the assignments back to the tutor by e-mail attachments.

Upon successful completion of theoretical part, certification of competency for theory part is issued by the tutor. The student can then follow the instructions for practical tasks that can be done by simulated online version application of softwares or purchase the locally available materials and perform the practical tasks and submit the evidences of

practical tasks by photos and videos to the tutor. Upon successful completion of the practical tasks, the competency for the practical task is issued.

### **Further career**

Although the study program is not linked to the Australian accredited courses, the competencies of the training program which are set at up to Australian Advanced Diploma level acquired by the students can not only be utilized in the prospective workplaces but also can later be applied in the trade tests of Australian Vocational Assessment & Recognition Authorities to obtain the recognised trade certificates.

### **Deign of study materials**

The tutor who is also currently working as a vocational education teacher in Australia voluntarily arranges and prepares the learning materials for the benefits of Myanmar (Burmese) students who have faced the disruptions of their studies due to various circumstances. The materials are the same materials that are being utilized in Australian vocational education and training classes currently.

### **Requirement for enrolment**

No specific education level is set for eligibility to enrol the program but all study materials are prepared in English language. Appropriate proficiencies in reading and writing of English together with appropriate basic level of mathematical skill is required.

### **Contact**

The interested students should contact the online volunteer tutor at the following e-mail address:

**[iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)**

# STUDENTS ACTIVITIES

## ADVERTISEMENT UPDATE FOR SHORT COURSES

To view the updated advertisements for short courses and general advertisements, click the following link

[www.iqytechnicalcollege.com/shortcourses.htm](http://www.iqytechnicalcollege.com/shortcourses.htm)

[www.iqyadvertisements.blogspot.com](http://www.iqyadvertisements.blogspot.com)

အောက်ပါကြော်ငြာစာရွက်များတွင်ပါဝင်သောဆက်သွယ်ရမည့်ဖုန်းနံပါတ်များပြောင်းလဲမှုရှိသည်။

<http://www.iqytechnicalcollege.com/contact1.htm>

သို့မဟုတ်

<http://www.iqytechnicalcollege.com> and **Click Contacts and Campuses**

သို့မဟုတ်

[iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com) သို့ E mail ပို့ပါ။

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There are updates of contact phone numbers in the following advertisements.

Please refer

<http://www.iqytechnicalcollege.com/contact1.htm>

Or

<http://www.iqytechnicalcollege.com> and **Click Contacts and Campuses**

or

Send the e mail enquiry to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

The fees in the following advertisements are just based price. Much higher fees can be charged based on operating expenses. Please contact the college for latest fees. Different IQY Branches can also charge the different fees

depending on local conditions.

ADVERTISEMENTS UNTIL JANUARY 2018 (REGULAR COURSES)

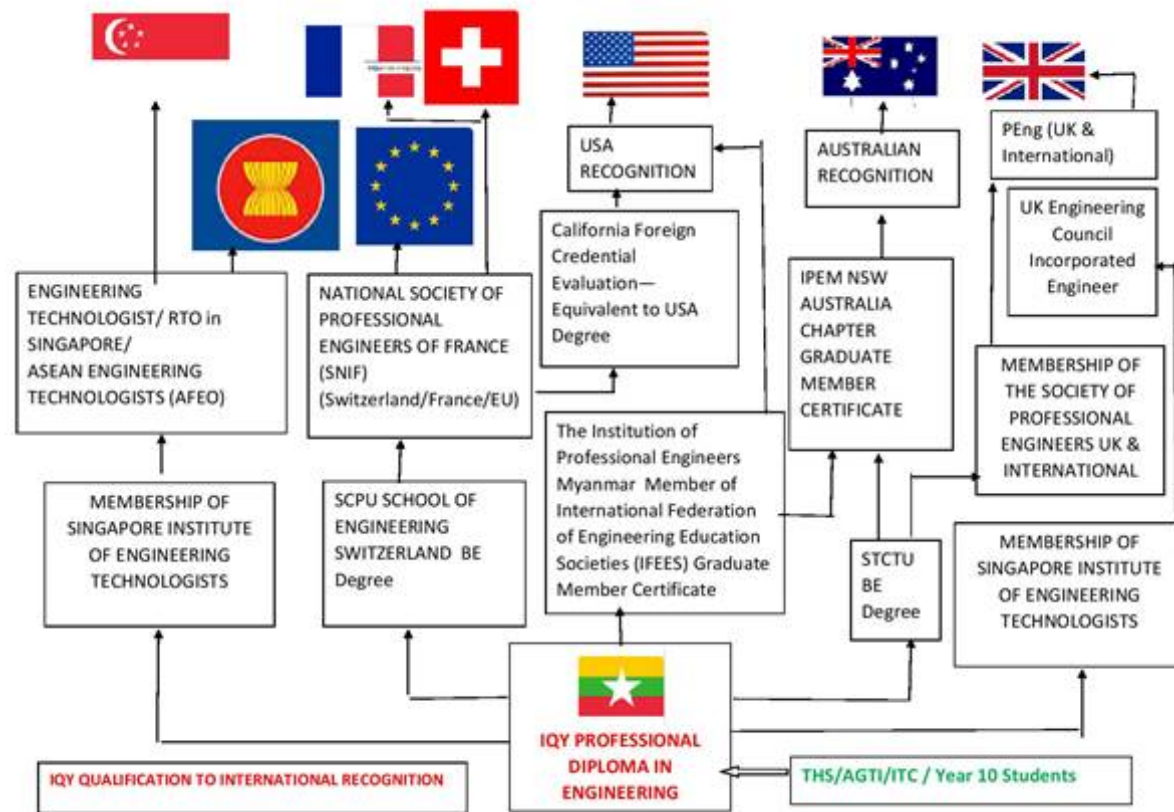
[Course Information & Advertisements](#)

[Profile of IQY Courses](#)

[IQY Branches and Satellite Colleges Advertisement](#)

[IQY Affiliated Institutions Advertisements & Information](#)

[Other Activities of IQY Technical College](#)



### IQY Technical College Programs Overview

[www.iqytechnicalcollege.com/IQY Technical College Program Overview.pdf](http://www.iqytechnicalcollege.com/IQY%20Technical%20College%20Program%20Overview.pdf)

Comparing IQY Technical College, Government Technical Institute and Technological Universities of Myanmar

[http://www.iqytechnicalcollege.com/Comparing IQY-GTI-TU.pdf](http://www.iqytechnicalcollege.com/Comparing%20IQY-GTI-TU.pdf)

(IPEMTU) IPEM Technological University is listed as Swiss universities

[https://en.wikipedia.org/wiki/List\\_of\\_universities\\_in\\_Switzerland#Higher Education Institutions](https://en.wikipedia.org/wiki/List_of_universities_in_Switzerland#Higher_Education_Institutions)

STC Technological University

STC Technological University Overseas Campus in Myanmar



[https://en.wikipedia.org/wiki/List\\_of\\_universities\\_in\\_Saint\\_Kitts\\_and\\_Nevis#Universities](https://en.wikipedia.org/wiki/List_of_universities_in_Saint_Kitts_and_Nevis#Universities)

IQY Technical College in Myanmar Private Universities List

[https://en.wikipedia.org/wiki/Private\\_university#Myanmar](https://en.wikipedia.org/wiki/Private_university#Myanmar)

The Screenshots of the above links taken on 24 January 2020 were embedded into the page hosted by IQY server

## Course Information & Advertisements

[IQY Technical College Information Video+Weblinks](#)

[Detailed Explanation of IQY Teaching and Award System](#)

[IQY Technical College Information Video+WeblinksPdf](#)

[IQY Advertisement Summary +New Students Recruitment](#)

[IQY Advertisement Diploma Myanmar+Dip Gen Engg+Dip WS/BWS-Engg](#)

[IQY /IPEM to International Connection](#)

[IQY Information Session](#)

[IQY New Arrangements of degrees](#)

<http://www.iqytechnicalcollege.com/IQYIPEMCourseInformation.htm>

[Explanation of IQY and IPEMTU](#)

[IQY IPEM Graduate Membership Recognized by Australia](#)

[IQY Technical College New Fees and Awarded Certificates by Affiliated Organizations](#)

[IQY Technical College Enrolment](#)

[FACEBOOK ENROLMENT](#)

[IPEM Technological University Pamphlet 5 April 2019](#)

[IQY SIET SCPU School of Engineering Joint Program+Master of Professional Engineering](#)

[Singapore Switzerland Myanmar Collaboration](#)

[IQY Technical College Study Mode and Qualifications \(Engineering\)](#)

[How to get St Clements University Degree](#)

[SPE International Advertisement](#)

[IPEM NSW Australia+SPEUK+SIET Recognition of IQY Graduates](#)

[IPEM + Other Certificates \(How to get them\)](#)

[IQY Qualification Conversion Course](#)

[SPEUK Membership Diploma and Construction Skills Courses with IQY](#)

[Adv Dip/Prof Dip Engg \(QS\)/ BSc Engg \(QS\)](#)

[Pamphlet Update 23 February 2019](#)

[Semester 1 Advertisement Engineering](#)

[Semester 2 Advertisement Engineering](#)

[December/ July Intensive Courses](#)

[IQY Video Learning Advertisement](#)

[IQY Online Learning](#)

[Degree Award Rules](#)

[IQY Technical College All Advertisements Summary](#)

[IQY Technical College Courses Advertisement](#)

[IQY Technical College Advertisement \(English\)](#)

[IQY Technical College Pamphlet](#)

[IQY Technical College Pamphlet Update](#)

[Legal Background of IQY Diplomas](#)

[IQY Award and Career Flow Diagram](#)

[Voluntary Schools Advertisement](#)

[Computer Courses Advertisement](#)

[IQY Vocational Education and Year 12 Course Advertisement](#)

[MVTC Courses for Year 8 Advertisement](#)

[Bachelor of Engineering \(Rural Development Engineering\)](#)

[Master of Engineering \(Civil- High Rise Building Construction\)](#)

[IQY Vocational Education and Year 12 Course Enrolment Form](#)

[IQY Advanced Diploma Course for Non University Entrance Passed Students in Myanmar](#)

[IQY Advertisement for Non university Entrance Passed Female Worker Students](#)

[Vocational Education to Degrees](#)

[Bachelor of Work Studies \(Vocational Studies\) Advertisement](#)

[Bachelor of Work Studies \(Vocational Studies\) Video](#)

[Special Program for THS/ITC/Site Workers/Non Year 10 Passed and AGTI Graduates who are not allowed to continue their engineering studies at GTI and TU  
BE Programs](#)

[Advanced Diploma in Electro-mechanical and Construction Engineering Advertisement](#)

[THS/ITC to Advanced Diploma](#)

[THS+GTI to BTech+BE](#)

[THS/ITC to BE](#)

[AGTI to BE](#)

[GTI and IQY](#)

[Bachelor Work Studies in Myanmar Language of Instruction](#)

[Diploma/Advanced Diploma/ Bachelor of Work Studies \(Engineering\)](#)  
[Advanced Diploma in Work Study-Engineering + Bachelor of Work Study-Engineering for IQY THS Diploma Graduates](#)  
[ADWSBWSDipEnggBTechBEConversionAdvertisement](#)  
[International Vocational Training Courses](#)  
[International Vocational Training Courses for Myanmar Students](#)  
[International Vocational training Course for Myanmar Students Advertisement](#)  
[Alternative Education from Middle School Year to Degree](#)  
[Special BE Program for 3 Years AGTI](#)  
[Special BE \(EE+RE/CE+RE/ME+RE\) Program for 3 Years AGTI or Engineering Diploma](#)  
[BTech +Special BE\(EE+RE/CE+RE/ME+RE\) Announcement](#)  
[Graduate Engineer Internship](#)  
[Engineer Career Conversion Program](#)  
[Seamen Career Conversion Program](#)  
[Career Conversion BE/BAppSc\(IT\)/BMgt /BEngMgt Advertisement](#)  
[BTech to BE Program](#)  
[Teacher Training Advertisement](#)  
[Additional Production Manufacturing -Chemical, Mining, Metallurgy, Petroleum Training for Mechanical Diploma holders](#)  
[BE Chemical Metallurgy Petroleum Hazardous Safety Course](#)  
[Professional Diploma/ BE in Hazardous Safety Engineering](#)  
[Self study Online CPD Courses Advertisement](#)  
[Advanced Diploma in Automotive Engineering and Advanced Diploma in Marine Engineering Advertisement](#)  
[IQY Free Courses](#)  
[IQY Online for Engineering Staff](#)  
[Occupational Health and Safety Course](#)

[IQY Engineering Internship Course](#)  
[IQY Apprentice and Traineeship Program](#)  
[IQY Electrical Wiring Training Course](#)  
[IQY Mechanical Engineering Trade Course](#)  
[IQY Construction Trade Course](#)  
[IQY Electrical Practical Training Course](#)  
[IQY Construction Training Course](#)  
[ETAB and REVIT](#)  
[AutoCAD, Smart Plant, Staad, Tekla, CAD Worx, Electrical CAD](#)  
[CAM/Master CAM/CNC](#)  
[BE \(Computer Aided Engineering\)](#)  
[IQY Electronics and Telecommunication Training Course](#)  
[Master of Professional Engineering Practice](#)  
[ME\(Civil\)](#)  
[ME\(Electrical/EP/EC\)](#)  
[ME\(Mechanical/Mechatronics/Metallurgy/Mineral Resources\)](#)  
[ME\(Chemical\)](#)  
[ME\(Architecture\)](#)  
[MSc\(IT\)](#)  
[ME\(RE\)](#)  
[MMgt+MAcc+MBA](#)  
[SCPU ME](#)  
[SCPU DEng](#)  
[PhD+ME \(Electrical Resources\)](#)

[PhD+ME \(Civil Resources\)](#)

[PhD+ME \(Mechanical Resources\)](#)

[PhD+ME \(IT Resources\)](#)

[PhD+ME \(Renewable Energy Resources\)](#)

[PhD+ME \(Architecture Resources\)](#)

[PhD+ME+BE All Courses Resources](#)

## Profile of IQY Courses

[IQY College Courses Levels and Nature of Assessments](#)

[Which course I should do](#)

[IQY Awards Explanation](#)

[IQY Learning System and Award Recognition](#)

[Comparing Australian Qualifications Framework/ Fiji Qualifications Framework/ IQY Qualifications Framework and credit transfer matters](#)

[IQY Qualifications and Myanmar Qualifications Matching](#)

[Documents to be attached with our diplomas/ degrees](#)

[IQY Disciplines](#)

[IQY Notice to all students](#)

[IQY Teachers Conduct](#)

## IQY Branches and Satellite Colleges Advertisement

[IQY Mandalay THS to Advanced Diploma in General Engineering Advertisement](#)

[Affiliated Education Groups, Schools, Colleges and Teachers Advertisement](#)

## IQY Affiliated Institutions Advertisements & Information

[Singapore Institute of Engineering Technologists and Professional Engineer \(UK\) Advertisement](#)

[Singapore Institute of Engineering Technologists Technology Leaflet](#)

[IQY+GGO Group Practical Training Advertisement](#)

[English Training Advertisement](#)

[Humanities Studies Course Advertisement](#)

[The Institution of Professional Engineers Myanmar Training Courses](#)

[IQY Technical College Affiliation Advertisement](#)

## Other Activities of IQY Technical College

[IQY -St Clements Convocation](#)

[IQY St Clements Convocation 2018 Video Highlights](#)

[IQY Technical College Listed in World Universities](#)

[IQY Technical College Rated by World Universities.com site](#)

[IQY Technical College Information](#)

[1](#) [2](#) [3](#) [4](#)

[IQY Class Teaching and Practical Training Photos](#)

[Site Training](#)

[Drawing and Design Training](#)

[IQY-WEDO for Myanmar Site Training](#)

[Electrical Training](#)

[2019 Graduation](#)

[IQY Technical College +St Clements University in World University List](#)

[Mechanical+Welding+Civil Construction](#)

[TU Support Program + International Vocational Training Advertisement Part 1](#)

[International Vocational Training Advertisement Part 2](#)





## **Documents to be presented together with your degree and diplomas**

(1) To confirm and verify your award

<http://www.iqytechnicalcollege.com/graduates.htm>

(2) To attach

Universities in the World Rating Link (IQY Server)

<http://www.iqytechnicalcollege.com/universityintheworld.htm>

IQY is one of Top university in Yangon (Webpage zip file) & PDF Page

<http://www.iqytechnicalcollege.com/topuniversity.zip>

**IFEES Membership of IPEM**

<http://www.ipemyanmar.org/IPEM%20IFESWebsite.pdf>

<http://www.ipemyanmar.org/IFEESIPEM11Oct2018.pdf>

<http://www.ipemyanmar.org/2018%20IFEES%20Secretariat%20Report.pdf>

- Certificate of Accreditation by IPEM (IQY Technical College)

<http://www.iqytechnicalcollege.com/Accreditation%20Certificate-A1IQY%20Technical%20College.pdf>

- Certificate of Accreditation by IPEM (STC Technological University)

<http://www.iqytechnicalcollege.com/Accreditation%20Certificate-A8%20STC%20Technological%20University-International%20Engineering.pdf>

**Singapore Institute of Engineering Technologists Recognition**

<http://www.iqytechnicalcollege.com/sietatc.htm>

**The Society of Professional Engineers (UK and International) Recognition**

<http://www.thespeukinternational.org/membershipinformation.htm>

[www.thespeukinternational.org](http://www.thespeukinternational.org)

The Institution of Professional Engineers Myanmar NSW Australia Chapter  
Registered with NSW Government (INC1901087 - registration – LN)

<http://www.ipemyanmar.org/IPEMNSWAustRegistrationCert.pdf>

Institute of Computer Engineers of the Philippines Affiliation

<http://www.ipemyanmar.org/Cert%20of%20Partnership.pdf>

International Vocational Education Training Association (IVETA-USA) Recognized Trainer

- Registration No 52075207

[www.iqytechnicalcollege.com/ivetamembership.pdf](http://www.iqytechnicalcollege.com/ivetamembership.pdf)

(3) To apply for St Clements University degree/ STC Technological University degree/ Singapore Institute of Engineering Technologists Membership/ UK Professional Engineers/The Institution of Professional Engineers Myanmar NSW Australia Chapter.

- Singapore Institute of Engineering Technologists Membership

<http://www.highlightcomputer.com/sietapplication.htm>

Fees direct transfer to Singapore

- UK Professional Engineer

<http://www.thespeukinternational.org/internationalapplication.htm>

Fees to be paid to IQY Principal (To be advised)

- The Institution of Professional Engineers Myanmar NSW Australia Chapter Graduate Membership Certificate

[www.highlightcomputer.com/IPEMAApplication.doc](http://www.highlightcomputer.com/IPEMAApplication.doc)

Fees to be paid to IQY Principal (To be advised)

- Other International Professional Organizations

<http://www.highlightcomputer.com/afteriqycourse.pdf>

<http://www.highlightcomputer.com/recognition.htm>

Fees direct transfer to the organizations concerned

- STC Technological University degree

Automatically issued with IQY Professional Diplomas

- St Clements University degree

Fees to be paid to IQY Principal (To be advised)+ President of St Clements University Visa Card (To be advised)+Study evidence  
+Graduation fees+ Personal attendance at graduation.

#### (4)More detailed information

IQY Qualifications Framework

<http://www.highlightcomputer.com/iqyqualificationsframework.pdf>

Curriculums + Course Objectives

<http://www.highlightcomputer.com/curriculum.htm>

Course Outlines

<http://www.iqytechnicalcollege.com/offeredcourses.htm>

[http://www.highlightcomputer.com/Program\\_Enrolment.htm](http://www.highlightcomputer.com/Program_Enrolment.htm)

## IQY Technical College Students Notice Board

<http://www.highlightcomputer.com/noticeboard.htm>

### SEMESTER PLAN

SEE THE THIS SITE TO DOWNLOAD YOUR RESULTS

[www.igystudentscertificates.blogspot.com](http://www.igystudentscertificates.blogspot.com)

IQY Diplomas and Academic Transcripts Download Link

[www.igystudentscertificates.blogspot.com](http://www.igystudentscertificates.blogspot.com)

SEE THE THIS SITE TO DOWNLOAD YOUR TIMETABLES & COURSES

[www.igystudentstimetables.blogspot.com](http://www.igystudentstimetables.blogspot.com)

## Recognition Certificate of Singapore Institute of Engineering Technologists on IQY Technical College

IQY Technical College မှ Diploma/ Advanced Diploma/ Professional Diploma in Engineering ရရှိသူတို့ သည်မိမိတို့ ၏ Diploma များနှင့် Singapore Institute of Engineering Technologists (SIET) ၏ IQY Technical College ကို အသိအမှတ်ပြု လက်မှတ်ကိုပူး တွဲတင်ပြ အသုံးပြုရပါမည်။

Singapore Institute of Engineering Technologists (SIET) ၏ IQY Technical College ကို အသိအမှတ်ပြု လက်မှတ်ကိုအောက်ပါလင့်ခ်မှ Download ဆွဲပါ။

The graduates of IQY Technical College who are awarded with Diploma/ Advanced Diploma / Professional Diploma in Engineering will need to present the Recognition Certificate of Singapore Institute of Engineering Technologists on IQY Technical College together with their IQY Engineering Diplomas.

The Recognition Certificate of Singapore Institute of Engineering Technologists on IQY Technical College can be download from the following link.

[www.highlightcomputer.com/IQYSIETRecognition.pdf](http://www.highlightcomputer.com/IQYSIETRecognition.pdf)

## UPDATED COURSES

Click the following link to view the updated courses

<http://iqycoursesupdate.blogspot.com.au/>

VIDEO (MYANMAR) FOR THE OFFERED COURSES

[www.iqytechnicalcollege.com/IQYIPEMCourseInformation.htm](http://www.iqytechnicalcollege.com/IQYIPEMCourseInformation.htm)

[IQY Technical College Programs and Career](#)

### Offered Courses

**[Bachelor of Engineering/ Professional Diploma in Engineering Courses](#)**

**[Advanced Diploma/ Diploma in Engineering Courses](#)**

**[Bachelor of Applied Management/ Bachelor of Business Management /Professional Diploma in Management Courses](#)**

**[Advanced Diploma/ Diploma/ Certificate in Management & Business Courses](#)**

**[Bachelor of Applied Science Information Technology /](#)**

**[Professional Diploma in Information Technology Courses](#)**

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**[Self Study CPD Online Courses](#)**

**[Double Degrees Program](#)**

**[Bachelor of Education/ Diploma in Education/ Diploma in Teaching /Professional Diploma/Master Diploma/Masters degree in Education Courses](#)**

**[Bachelor of Humanities Studies/ Diploma in Humanities Studies / Advanced Diploma in Humanities Studies/ Professional Diploma in Humanities Studies / Masters Diploma & Master of Humanities Studies Courses](#)**

**[Graduate Diploma/ Master Diploma/ Master of Engineering Courses](#)**

[Graduate Diploma/ Master Diploma/ Master of Applied Science \(Information Technology\) Courses](#)

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[Myanmar Vocational Training Certificate Courses](#)

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[Engineering Design / BE \(TU\) Final Year Thesis/ Internship Report/Project Support Program](#)

[International Vocational Education Courses](#)

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BE/ Professional Diploma in Engineering Courses

Live Lesson Courses

[Advanced Diploma in Electro-mechanical and Construction Engineering \(45667\)](#)

[Bachelor of Technology/Professional Diploma in Engineering Technology in Electrical/Civil/Mechanical and Renewable Energy Engineering \(65667\)](#)

[Bachelor of Engineering/Professional Diploma in Engineering in Electrical/Civil/Mechanical and Renewable Energy Engineering \(65668\)](#)

### **Personal Attendance, Guided Study and Self Study e-Learning Courses**

[Professional Diploma in Engineering \(Electrical/ Civil/Mechanical with Renewable Energy\)](#) (Course 67110A/67111A)

[Professional Diploma +BE Automotive Engineering \(6722113\)](#)

[Diploma/Advanced Diploma /Professional Diploma in Renewable Energy Engineering \(Course 27333,37333, 67333\)](#)

[Professional Diploma in Electrical Engineering \(Electrical Power & Electronics\)](#) (60115)

[Professional Diploma in Industrial Engineering+BE\(Industrial Engineering\) \(677889\)](#)

[Professional Diploma in Structural Engineering/ Master of Science \(Structural Engineering\) \(677553/7776654\)](#)

[Professional Diploma/ Advanced Diploma in Engineering  
\(Engineering Practice\) for Diploma/AGTI/BTech/BE Degree holders](#)

### **IQY Construction and Civil Specialist Skills Courses**

**Professional Diploma for 3 Years AGTI**

**AGTI to BE Conversion Program**

(Course 67110/67111)

**Arrangement of BTech and BE Courses for Instalment payments**

**Bachelor of Technology Program (56778)**

**Career Conversion Courses for BE/BTech/AGTI/City & Guild Diplomas**

**SELF STUDY ENGINEERING PROFESSIONAL DIPLOMA PROGRAMS**



[Professional Diploma in Architectural Engineering \(60116\)](#)

[Professional Diploma in Metallurgical & Materials Engineering \(60216\)](#)

[Professional Diploma in Mineral Extraction & Explosion Protection Engineering \(Combined Mining & Petroleum Course\) \(60316\)](#)

[Professional Diploma in Chemical Engineering \(60416\)](#)

[Certificate in Occupational Health and Safety \(12128\)](#)

[Professional Diploma in Hazardous Safety Engineering \(60814\)](#)

[Diploma in Hazardous Safety Engineering \(39919\)](#)

[Professional Diploma in Automotive and Mechanical Engineering \(63111\), Professional Diploma in Marine and Mechanical Engineering \(63112\)](#)

[Professional Diploma in Naval Architectural Engineering \(63113\)](#)

[Professional Diploma in IT \(Network\) \(63347\), BE \(ICT-Network\)\(63348\)](#)

**[Bachelor Degree Programs \(St Clements University Higher Education School &](#)**

**[STC Technological University of British West Indies\)](#)**

[Bachelor of Engineering \(Electrical/ Civil/ Mechanical with Renewable Energy\) Course outline](#)

[Bachelor of Engineering \(Electrical Engineering\) Course Outline \(60114/61112\)](#)

[Bachelor of Engineering \(Mechanical Engineering-Mechatronics\) Course Outline \(61012/61512\)](#)

[Bachelor of Engineering \(Civil Engineering-Building Services\) Course Outline \(60912/61412\)](#)

[Bachelor of Engineering \(Renewable Energy\) \(67333A\)](#)

[Bachelor of Engineering \(Computer Aided Engineering\) with Electrical/Civil/Mechanical \(6889907\)](#)

**[Graduate Diploma / Graduate Bachelors Degree Programs](#)**

[Graduate Diploma of Civil Engineering + Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline \(70214/71215\)](#)

[Bachelor of Engineering \(Civil\) Course outline \(60214/61212\)](#)

[Bachelor of Engineering \(Mechanical\) Course outline \(60314/61312\)](#)

[Graduate Diploma of Mechanical Engineering + Bachelor of Applied Engineering \(Final Year Mechanical Design\) Course Outline \(70314/71415\)](#)

-

[Bachelor of Engineering Management Course Outline \(66213\)](#)

[Bachelor of Engineering \(Mechanical Engineering Management\) /Professional Diploma in Mechanical Engineering and Management Course \(38811/68811\)](#)

[Graduate Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline\(70714\)](#)

[Scholarship Application Form for Volunteer Teachers](#)

## **Advanced Diploma/ Diploma in Engineering Courses**

[\*\*Diploma Programs \(IQY Technical College\)\*\*](#)

[Electrical Engineering Course Outline \(20112/30112/30112\)](#)

[Mechanical Engineering Course Outline \(20312/30312/40313\)](#)

[Civil Engineering Course Outline \(20212/30212/40213\)](#)

[Automotive Engineering Course Outline \(30512\)](#)

[Diploma in Computer Aided Engineering \(3556678\)](#)

-

[Advanced Diploma in Engineering Design \(Electrical/Civil/Mechanical \(30915/31015/31115\)](#)

[Diploma / Advanced Diploma in Air-conditioning and Refrigeration Engineering \(28775/38775\)](#)

[Advanced Diploma in General Engineering and Drafting \(with Basic Business and IT\) \(32115\)](#)

For the students who have not passed Year 10/ University Entrance Examination.

Tutoring for the university entrance examination level subjects are concurrently provided

[Advanced Diploma in Engineering \(Myanmar Language\)\(27764\)](#)

[Advanced Diploma in Electro-mechanical and Construction Engineering \(27765\)](#) [\(Course for THS/ITC/Matured Workers\)](#)

[Diploma in General Engineering + Advanced Diploma in Mechanical Electrical and Civil Engineering](#)

[Diploma in Engineering \(Drafting and Design\) \(20915\)](#)

[Diploma/Advanced Diploma in Engineering \(Trade\) Practice Courses for  
experienced workers in Myanmar](#)

[Marine Engineering Course Outline \(30612\)](#)

[Diploma in Telecommunication Engineering \(30116\)](#)

[THS Certificate to IQY Advanced Diploma+ Degree Program](#)

**Bachelor of Applied Management/ Bachelor of Business Management /Professional Diploma in Management Courses**

[\*\*Bachelor Degree Programs \(St Clements University Higher Education School &\*\*](#)

[\*\*STC Technological University of British West Indies\)\*\*](#)

[Bachelor of Business /Bachelor of Applied Management Course Outline\(66113/66515\)](#)

[Bachelor of Engineering Management Course Outline \(66213\)](#)

**Advanced Diploma/ Diploma/ Certificate in Management & Business Courses**

[Management Course Outline \(26113/36113/46114\)](#)

[Certificate in Financial Management \(26315\)](#)

-

[Certificate in Financial Management Learning Support Website\(26315\)](#)

[Business Management Programs](#)

[UK Business Courses](#)

[Certificate/ Diploma in Tourism Management \(214467\)](#)

**Bachelor of Applied Science Information Technology /  
Professional Diploma in Information Technology Courses**

**[Bachelor Degree Programs \(St Clements University Higher Education School &  
STC Technological University of British West Indies\)](#)**

[Bachelor of Applied Science \(Computer Science & Computer Technology\)](#)  
(63112/63212)

**Advanced Diploma/ Diploma/Certificate in Information Technology Courses**

[Information Technology Course Outline \(23112/33112/43113\)](#)

[Certificate in Information Technology Course Outline \(23112\)](#)

[Diploma in Information Technology Course Outline \(33112\)](#)

[Advanced Diploma in Information Technology Course Outline \(43113\)](#)

[Diploma in Telecommunication Engineering \(30116\)](#)

[Professional Certificate in Medical Data System + Graduate Certificate in Information Technology \(Medical data system\) \(4889008\)](#)

## Self Study CPD Online Courses

[Self study online CPD Courses \(12111/13111\)](#)

[Open Public Courses and Continuing Professional Development Courses](#)

[Certificate of Attendance in Diploma/ Professional Diploma in Engineering, Management and Information Technology Programs](#)  
(A66223) Form-Click [HERE](#)

## Double Degrees Program

[Double Degrees \(BE+BMgt/ BE+BAppSc\(IT\)/ BMgt+BAppSc\(IT\)\)](#)

Bachelor of Education/ Diploma in Education/ Diploma in Teaching /Professional Diploma in Education Courses

[Bachelor Degree Programs \(St Clements University Higher Education School &](#)

[STC Technological University of British West Indies\)](#)

[Master of Education \(Engineering Education/ School and Vocational Education\)](#)  
(80018)

[Professional Diploma in Technical Teaching \(Training, Assessment & Learning Management\)](#)

(10615/46415/56415/66415/76415)

[Diploma in Engineering Education for Government Technical Colleges & Technological University Teachers & Vocational Education Teachers in Myanmar](#)

(10615/46415/56415/66415/76415)

[Diploma in Engineering Education \(Level 1/2/3 Engineering Education Program\)](#)

[Preparation for Teaching Practice & TVET Teacher Training \(Introductory 2 weeks course\)](#)

[Diploma in Higher Education Teaching Course](#)

## Engineering Education & Accreditation Course

Certificate in Teaching Support+ Diploma in Teaching Practice+ Bachelor of Teaching+ Bachelor of Education (School & Vocational) (66213/66313)

### Diploma in Teaching Practice

PROFESSIONAL DIPLOMA IN SCHOOL & VOCATIONAL EDUCATION)

(BACHELOR OF EDUCATION (SCHOOL & VOCATIONAL EDUCATION)

### Teacher Training for Volunteer Organizations

**Bachelor of Humanities Studies/ Diploma in Humanities Studies / Advanced Diploma in Humanities Studies/  
Professional Diploma in Humanities Studies / Masters Diploma & Master of Humanities Studies Courses**  
**Bachelor Degree Programs (St Clements University Higher Education School &**

**STC Technological University of British West Indies)**

## IQY Technical College/ St Clements University Humanities

### Study Programs

(37001/47001/57001/67001)

Myanmar Vocational Training Collaboration +IQY+ STCTU+ St Clements University Myanmar College

Diploma in Work Studies (106689)/ Advanced Diploma in Work Studies (206689) / Bachelor of Work Studies/ Bachelor of Occupation Studies (406689)

Bachelor of Work Studies (Vocational) in Myanmar Language

Bachelor of Work Studies in Vocational Studies (456678A/556678A)

Work Studies Career

Dip EI+Dip M & E + Prof Cert Hotel Construction

[Professional Diploma in Work Studies-Engineering/ Professional Diploma in Engineering science/ Bachelor of Work Studies/ Bachelor of Science-Engineering/ \(Course 5066689\)Associate Degree in Work Studies-Engineering \(Course 332256\)](#)

Certificate in Legal Studies (Myanmar Law) 1133456

**Graduate Diploma/ Master Diploma/ Master of Engineering Courses**

**STC Technological University & IQY Technical College**

[Master of Engineering Science, Master of Engineering, Graduate Diploma in Engineering](#)

[76555 E/M/C](#)

[Graduate Diploma of Engineering Practice \(Electrical\) Course \(70114/71115\)](#)

[Graduate Diploma of Engineering Practice \(Electronics\) Course\(71114/72515\)](#)

[Graduate Diploma of Engineering Practice \(Mechanical\) Course \(70314/72315\)](#)

[Graduate Diploma of Engineering Practice \(Civil\) Course \(70214/72215\)](#)

**[Master of Science \(Engineering\) / Master of Engineering](#)**

[IQY Master Diploma In Engineering/ Applied Science/Management- Research Programs \(80214/81215\) \(80314/81315\) \(80114/81115\)](#)

[Special Master of Engineering Courses \(Engineering Disciplines other than Electrical/Civil/Mechanical\) \(83215\)](#)

[Master of Science \(Renewable Energy Engineering\) \(80914\)](#)

[Master of Engineering \(Renewable Energy\) \(80414\)](#)

[Master of Engineering \(Chemical\) \(83215A\)](#)

[Master of Engineering \(Metallurgy\) \(83215B\)](#)

[Master of Engineering \(Mineral\) \(83215C\)](#)

[Master of Engineering \(Architectural\) \(83215D\)](#)

[IQY Masters Degree \(M Mgt+ ME \(EE,CE,ME\)+M App Sc \(IT\)+MSc \(RE\)+ Associate Degree in RE+ BE \(Civil+ Mechanical\) Courses Learning Support Website](#)

## [IQY Technical College Masters Degree Information](#)

[Graduate Diploma of Civil Engineering + Bachelor of Applied Engineering \(Final Year Civil Design\) Course Outline \(70214/71215\)](#)

[Graduate Diploma of Mechanical Engineering + Bachelor of Applied Engineering \(Final Year Mechanical Design\) Course Outline \(70314/71415\)](#)

[Graduate Diploma of Engineering Practice \(Computer Control Engineering \) Course Outline\(70714\)](#)

**Graduate Diploma/ Master Diploma/ Master of Applied Science (Information Technology) Courses**

[Master Degree Programs \( St Clements University and](#)

[STC Technological University of British West Indies\)](#)

[Master of Science \(Information Technology\)/Master of Information Technology](#)

(73114/73214/83215)

[\(Master Diploma in Applied Science-Information Technology\)](#)

[Master of Applied Science \(Computer Networking\) \(70883\)+](#)

[Master of Engineering \(Computer Networking\)\(70884\)](#)

**Graduate Diploma/ Master Diploma/ Master of Management Courses**

[Master Degree Programs \( St Clements University and](#)

[STC Technological University of British West Indies\)](#)

[Master of Management \(76114/76214/86215\)](#)

[Master Diploma in Management \(76114/76214/86215\)](#)



[Master of Accounting/ Master Diploma in Accounting \(77114\)](#)

Graduate Diploma/ Master Diploma/ Master of Engineering Courses

**SCPU School of Engineering (Switzerland),**

**IPEM Technological University &**

**St Clements University Myanmar College**

The students who complete the following programs will also be awarded Master of Engineering (Professional Engineering) or

Master of Engineering Honours by STC Technological University

[Master of Engineering +Graduate Diploma in Engineering \(Civil\) Course Outline \(80214/81215\)](#)

[Master of Engineering +Graduate Diploma in Engineering \(Mechanical\) Course Outline \(80314/81315\)](#)

[Master of Engineering +Graduate Diploma in Engineering \(Electrical\) Course Outline \(80114/81115\)](#)

[Master of Engineering \(Civil High Rise Building Construction\) \(801121\)](#)

[Graduate Diploma in Geographic Information Systems\(6886650\)](#)

[Master of Professional Engineering \(6688900\)](#)

[Master of Professional Engineering Practice \(6688901\)](#)

Diploma in Doctorate Studies/ Doctor of Philosophy Programs

[Doctor of Philosophy Degree Programs \( St Clements University and](#)

[STC Technological University of British West Indies\)](#)

[IQY Diploma in Doctorate Studies \(90110\)](#)

## Engineering Trades Practical Courses

[Practical Courses \(Certificate of Attendance\)](#) (10515)

## Vocational Education Certificate Courses (Non Engineering)

<http://www.highlightcomputer.com/mvtc.htm>

[General Vocational Courses](#)

(10615)

## IQY Technical College Rural Development Engineering Program

[Diploma in Intermediate Science](#) (10777)

-

<http://www.highlightcomputer.com/adrde.pdf>

Course MVTC 301/401/501/601)

[BE \(Rural Development Engineering\)](#)

[BE \(Agricultural Engineering\) 67433321](#)

## Myanmar Vocational Training Certificate Courses

<http://www.highlightcomputer.com/mvtc.htm>

[General Vocational Courses](#)

(10615)

## Professional Engineer Support Program

<http://www.highlightcomputer.com/pe.htm>

**Professional Engineers Support Course**

(73115/73215/73315/73715/73815)

**Engineering Fundamental Course**

(73115/73215/73315/73715/73815)

**Engineering Fundamental & PE Support**

(73115/73215/73315/73715/73815)

**Renewable Energy Programs**

<http://www.highlightcomputer.com/REPrograms.htm>

**Year 7 to 12 Study Support**

<http://www.highlightcomputer.com/y712.htm>

**Certificate II, III, IV in Workplace English + Engineering & Diploma to Associate Degree in Engineering Practice Course**

**Certificate II, III, IV in Workplace English + Engineering & Diploma to Associate Degree in Engineering Practice Course Outline**

(11114/21114/21214/50115/50215/50315/50715)

**International Engineering & Engineering Trades Support Program**

**Australian Bachelors Degree in Engineering**

(62115)

## [Australian Civil Engineering](#)

(41215)

## [Australian Mechanical Engineering](#)

(41315)

## [AUSTRALIAN ELECTRICIAN TRAINING](#) (41108/51413)

Physical Education-Fitness Program

### [Fitness Training](#)

Engineering Design Course

[www.iqytechnicalcollege.com/engineeringdesign1.htm](http://www.iqytechnicalcollege.com/engineeringdesign1.htm)

## **International Vocational Education Courses**

[www.iqytechnicalcollege.com/ivtc.htm](http://www.iqytechnicalcollege.com/ivtc.htm)

[IQY Technical College Unit Coding](#)

## **Language**

[www.iqytechnicalcollege.com/Language1.pdf](http://www.iqytechnicalcollege.com/Language1.pdf)

[IQY Technical College Course Handbook](#)

[IQYSIETIPEMSCPU Handbook](#)

## Authorized Training Centre of Singapore Institute of Engineering Technologists

<http://www.iqytechnicalcollege.com/sietatc.htm>

### Initial Accreditation and Registration (2014 to 2019)

<http://www.highlightcomputer.com/SIETATC.pdf>

### Current Registration Information

**IQY-SIET-AFEO**

[IQY Professional Diploma to AET](#)

[IQY Advanced Diploma to AT](#)

[www.iqytechnicalcollege.com/IQYSIETRecognition.pdf](http://www.iqytechnicalcollege.com/IQYSIETRecognition.pdf)

<http://highlightcomputergroup4.zoomshare.com/files/iqy/sietatc.htm>

## Affiliated Training Centre of The Society of Professional Engineers (UK and International)

[www.iqytechnicalcollege.com/SPECertificateIQY.pdf](http://www.iqytechnicalcollege.com/SPECertificateIQY.pdf)

The Singapore Institute of Engineering Technologists (SIET) being the Professional Body for Engineering Technologists is a multi-disciplined learned establishment registered in Singapore since 1980 under the Societies Act [Singapore Government Gazette Notification No: 3310].

<https://www.facebook.com/sietorgsg/>

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<http://www.iqytechnicalcollege.com/sietatc.htm>

### Initial Accreditation and Registration (2014 to 2019)

<http://www.highlightcomputer.com/SIETATC.pdf>

### Current Registration Information

**IQY-SIET-AFEO**

[IQY Professional Diploma to AET](#)

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[www.iqytechnicalcollege.com/IQYSIETRecognition.pdf](http://www.iqytechnicalcollege.com/IQYSIETRecognition.pdf)

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## Affiliated Training Centre of The Society of Professional Engineers (UK and International)

[www.iqytechnicalcollege.com/SPECertificateIQY.pdf](http://www.iqytechnicalcollege.com/SPECertificateIQY.pdf)

The Singapore Institute of Engineering Technologists (SIET) being the Professional Body for Engineering Technologists is a multi-disciplined learned establishment registered in Singapore since 1980 under the Societies Act [Singapore Government Gazette Notification No: 3310].

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## The Society of Professional Engineers (International) and its affiliated organizations

The applicant will need to send the filled application form and relevant documents to the Central Administration at [thespeukinternational@gmail.com](mailto:thespeukinternational@gmail.com)

[Membership Application Form](#)

[Membership Application Instructions](#)

### Affiliated organizations (Which does not mean that they are part of SPEInternational)

Regions/Countries	Locations	Contact E mail
Former SPE UK Members	Central Administration	E mail <a href="mailto:thespeukinternational@gmail.com">thespeukinternational@gmail.com</a>
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, India, Pakistan, Nepal, Bhutan, Afghanistan Sri Lanka	Pakistan (SPE International Branch)	<p>Mustafa Assad PEng (International), MSPE, MIIPE</p> <p>E mail <a href="mailto:mustafaassad3000@gmail.com">mustafaassad3000@gmail.com</a></p>
Australia, New Zealand, Oceania, South Pacific Island Countries, USA, Canada, Mexico	Australia	<p>Michael Moore Pacific Engineering PO BOX 227 Marrickville, NSW 1475</p> <p>E mail- <a href="mailto:hmmmyatmon@gmail.com">hmmmyatmon@gmail.com</a></p>

# The list of higher education institutions which provide voluntary education to needy students of Myanmar

**IQY Technical College**

[www.highlightcomputer.com](http://www.highlightcomputer.com)

**St Clements Technological University**

[www.stclementstu.com](http://www.stclementstu.com)

## MYANMAR VOCATIONAL TRAINING COLLABORATION

Member of IQY Education Group & Affiliation with  
The Society of Professional Engineers (UK and International)

[www.highlightcomputer.com/mvvc.htm](http://www.highlightcomputer.com/mvvc.htm)

Myanmar Vocational Training Certificate & Humanities Diploma

<http://www.highlightcomputer.com/mvvc.htm>

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### VOCATIONAL TRAINING COURSES RESOURCES

#### VOCATIONAL TRAINING COURSES LESSONS

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[www.highlightcomputer.com/HumanitiesCoursesOutline.pdf](http://www.highlightcomputer.com/HumanitiesCoursesOutline.pdf)

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**Work\_entry pathway**

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By sending e-mail to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

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# ENROLMENT FORM FOR STUDENT

[www.highlightcomputer.com/mvtcenrolmentform2.doc](http://www.highlightcomputer.com/mvtcenrolmentform2.doc)

## **RESOURCES DEVELOPMENT TEAM**

**Dr Kyaw Naing- Instructional Designer**

**Pann Ei- Resources Development team**

<http://www.mongroupsdney1.com/mvtclessons.htm>

References for the following lessons can be found in  
<http://www.mongroupsdney1.com/mvtccourseresources.htm>

The backgrounds of links are highlighted by Yellow colour.

### **CERTIFICATE IN AGRICULTURE FOOD PRODUCTION (MVTC201)**

[www.highlightcomputer.com/AgricultureLesson.pdf](http://www.highlightcomputer.com/AgricultureLesson.pdf)

### **CERTIFICATE IN ANIMALS HANDLING (MVTC202)**

[www.highlightcomputer.com/Animal1.pdf](http://www.highlightcomputer.com/Animal1.pdf)

### **CERTIFICATE IN BUSINESS (MVTC203)**

[www.highlightcomputer.com/Mgt101.zip](http://www.highlightcomputer.com/Mgt101.zip)

### **CERTIFICATE IN LABORATORY WATER OPERATIONS (MVTC204)**

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### **CERTIFICATE IN COMMUNITY SERVICE (MVTC205)**

**(FOODS SERVICE/HEALTH SERVICES/LIBRARY SERVICES/AGE CARE/CHILD CARE)**

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### **CERTIFICATE IN PROPERTIES SERVICES (MVTC206)**

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### **CERTIFICATE IN PERFORMING (MVTC207)**

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### **CERTIFICATE IN INFORMATION TECHNOLOGY (MVTC210)**

**Certificate+Diploma Information Technology**

**Computer Programming(BAE601-ICT 103+104+204)**



[www.iqytechnicalcollege.com/BAE601.zip](http://www.iqytechnicalcollege.com/BAE601.zip)

## ASSIGNMENT

[www.highlightcomputer.com/DipICTAssignments.pdf](http://www.highlightcomputer.com/DipICTAssignments.pdf)

## **CERTIFICATE IN ENGINEERING PRODUCTION & MANUFACTURING THEORY (MVTC211)**

[www.iqytechnicalcollege.com/MECertDip.zip](http://www.iqytechnicalcollege.com/MECertDip.zip)

<http://www.iqytechnicalcollege.com/MECertDipPart2.zip>

<http://www.iqytechnicalcollege.com/MECertDipPart3.zip>

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## **CERTIFICATE IN ELECTRICAL TRADE THEORY (MVTC212)**

### **Certificate+Diploma Engineering (Electrical)**

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[www.iqytechnicalcollege.com/EECertDipPart1b.zip](http://www.iqytechnicalcollege.com/EECertDipPart1b.zip)

[www.iqytechnicalcollege.com/EECertDipPart2.zip](http://www.iqytechnicalcollege.com/EECertDipPart2.zip)

[www.iqytechnicalcollege.com/EECertDipPart3.zip](http://www.iqytechnicalcollege.com/EECertDipPart3.zip)

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## **CERTIFICATE IN ENGINEERING TRADE PRACTICE (MVTC213)**

To do the those practical courses . Access the following link

<http://www.highlightcomputer.com/PracticalCourses.htm>

## **CERTIFICATE IN BASIC EDUCATION Year 9 to 12**

<http://www.highlightcomputer.com/y712lessons.htm>

## **Laptop & I Phone Repairing Course (MVTC 402)**

[www.highlightcomputer.com/iphone.htm](http://www.highlightcomputer.com/iphone.htm)

## **Sewing Machine Repairing Course (MVTC 303)**

[www.highlightcomputer.com/sewingmachine.htm](http://www.highlightcomputer.com/sewingmachine.htm)

## Work entry pathway/ Vocational & Academic Training

Youth and adult employees in several businesses such as café/restaurant/construction sites/sewing etc

Agri Food Production Workers <a href="#">Level 1</a>	<a href="#">Animal Handling Workers Level 1</a>	<a href="#">Business Services Employees Level 1</a>	Chemical- Laboratory & Water Operation Employees Level 1	<a href="#">Community Service Workers Level 1</a>	<a href="#">Construction Workers Level 1</a>	<a href="#">Electrical Workers Level 1</a>	<a href="#">Food Service Workers Level 1</a>	<a href="#">Health Services Workers Level 1</a>	<a href="#">ICT Service Employee Level 1</a>	Library Information Cultural Services Employee Level 1
<a href="#">Manufacturing, Production &amp; Plant Operation Workers Level 1</a>	<a href="#">Marine Service Workers Level 1</a>	<a href="#">Metal &amp; Engineering Worker Level 1</a>	<a href="#">Performer Level 1</a>	<a href="#">Property Services Worker Level 1</a>	<a href="#">Public Safety &amp; Personal Service Employee Level 1</a>	Sales & Marketing Employee Level 1	<a href="#">Screen &amp; Media Employee Level 1</a>	<a href="#">Transport Worker Level 1</a>	<a href="#">Visual Art &amp; Craft Employee Level 1</a>	<a href="#">Automotive Trade Worker Level 1</a>

Minimum 4 years experience at employment & relevant onsite assessment/additional training/ application process

**Detailed  
Job  
Descriptions  
&  
Assessment**

MVTC Level 1 Certificate which is equivalent to Skills Level 5-Experienced Elementary Workers

Theory & practical training related to their jobs.

For example, cooking skills for restaurant workers/ trade skills for construction site labourers etc + Formal recognition

<a href="#">Certificate in Agri Food Production</a>	<a href="#">Certificate in Animal Handling</a>	<a href="#">Certificate in Business Services</a>	<a href="#">Certificate in Chemical- Laboratory &amp; Water Operation</a>	<a href="#">Certificate in Community Service</a>	<a href="#">Certificate in Construction Asset Maintenance &amp; Furnishing</a>	<a href="#">Certificate in Electrical Trades</a>	<a href="#">Certificate in Food Service</a>	<a href="#">Certificate in Health Services</a>	<a href="#">Certificate in ICT</a>	<a href="#">Certificate in Library Information Cultural Services</a>
<a href="#">Certificate in Manufacturing, Production &amp; Plant Operation</a>	<a href="#">Certificate in Marine Service</a>	<a href="#">Certificate in Metal &amp; Engineering</a>	<a href="#">Certificate in Performing</a>	<a href="#">Certificate in Property Services</a>	<a href="#">Certificate in Public Safety &amp; Personal Service</a>	<a href="#">Certificate in Sales &amp; Marketing</a>	<a href="#">Certificate in Screen &amp; Media</a>	<a href="#">Certificate in Transport</a>	<a href="#">Certificate in Visual Art &amp; Craft</a>	<a href="#">Certificate in Automotive Trade</a>

**Detailed Job  
Descriptions &  
Assessment**

MVTC Level 2 Certificate which is equivalent to Skills Level 4 –Trained Assistant Tradespersons

**Course Materials**

<a href="#">Agri Food Production Workers Level 2</a>	<a href="#">Animal Handling Workers Level 2</a>	<a href="#">Business Services Employees Level 2</a>	Chemical-Laboratory & Water Operation Employees Level 2	<a href="#">Community Service Workers Level 2</a>	<a href="#">Construction Workers Level 2</a>	<a href="#">Electrical Workers Level 2</a>	<a href="#">Food Service Workers Level 2</a>	<a href="#">Health Services Workers Level 2</a>	<a href="#">ICT Service Employee Level 2</a>	Library Information Cultural Services Employee Level 2
<a href="#">Manufacturing Production &amp; Plant Operation Workers Level 2</a>	<a href="#">Marine Service Workers Level 2</a>	<a href="#">Metal &amp; Engineering Worker Level 2</a>	<a href="#">Performer Level 2</a>	<a href="#">Property Services Worker Level 2</a>	<a href="#">Public Safety &amp; Personal Service Employee Level 2</a>	Sales & Marketing Employee Level 2	<a href="#">Screen &amp; Media Employee Level 2</a>	<a href="#">Transport Worker Level 2</a>	<a href="#">Visual Art &amp; Craft Employee Level 2</a>	<a href="#">Automotive Trade Worker Level 2</a>

**Adult Education composing some academic study at university entrance level with the choice of subjects relevant to vocational field PLUS advanced trades skills level course/ training at Government/ Private/ Community/ Non Government Organizations**

<a href="#">Advanced Certificate in Agri Food Production</a>	<a href="#">Advanced Certificate in Animal Handling</a>	<a href="#">Advanced Certificate in Business Services</a>	<a href="#">Advanced Certificate in Chemical-Laboratory &amp; Water Operation</a>	<a href="#">Advanced Certificate in Community Service</a>	<a href="#">Advanced Certificate in Construction Asset Maintenance Furnishing</a>	<a href="#">Advanced Certificate in Electrical Trades</a>	<a href="#">Advanced Certificate in Food Service</a>	<a href="#">Advanced Certificate in Health Services</a>	<a href="#">Advanced Certificate in ICT</a>	<a href="#">Advanced Certificate in Library Information Cultural Services</a>
<a href="#">Advanced Certificate in Manufacturing Production &amp; Plant Operation</a>	<a href="#">Advanced Certificate in Marine Service</a>	<a href="#">Advanced Certificate in Metal &amp; Engineering</a>	<a href="#">Advanced Certificate in Performing</a>	<a href="#">Advanced Certificate in Property Services</a>	<a href="#">Advanced Certificate in Public Safety &amp; Personal Service</a>	<a href="#">Advanced Certificate in Sales &amp; Marketing</a>	<a href="#">Advanced Certificate in Screen &amp; Media</a>	<a href="#">Advanced Certificate in Transport</a>	<a href="#">Advanced Certificate in Visual Art &amp; Craft</a>	<a href="#">Advanced Certificate in Automotive Trade</a>

<b>Detailed Job Descriptions &amp; Assessment</b>	<b>MVTC Level 3 Certificate which is equivalent to Skills Level 3-Fully Qualified Tradespersons ( Equivalent Year 11 Standard)</b>	<b>Course Materials- Vocational</b>
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<a href="#">Agri Food Production Workers Level 3</a>	<a href="#">Animal Handling Workers Level 3</a>	<a href="#">Business Services Employees Level 3</a>	Chemical-Laboratory & Water Operation Employees Level 3	<a href="#">Community Service Workers Level 3</a>	<a href="#">Construction Workers Level 3</a>	<a href="#">Electrical Workers Level 3</a>	<a href="#">Food Service Workers Level 3</a>	<a href="#">Health Services Workers Level 3</a>	<a href="#">ICT Service Employee Level 3</a>	Library Information Cultural Services Employee Level 3
<a href="#">Manufacturing Production &amp; Plant Operation Workers Level 3</a>	<a href="#">Marine Service Workers Level 3</a>	<a href="#">Metal &amp; Engineering Worker Level 3</a>	<a href="#">Performer Level 3</a>	<a href="#">Property Services Worker Level 3</a>	<a href="#">Public Safety &amp; Personal Service Employee Level 3</a>	Sales & Marketing Employee Level 3	<a href="#">Screen &amp; Media Employee Level 3</a>	<a href="#">Transport Worker Level 3</a>	<a href="#">Visual Art &amp; Craft Employee Level 3</a>	<a href="#">Automotive Trade Worker Level 3</a>

**Tertiary Preparation Course for adult learners ( Equivalent Year 12 Standard)**

<b>Course Materials- Tertiary Preparation</b>	<b>Entry to relevant Government &amp; Non Government Tertiary/ Technical/Business/ Vocational Colleges to pursue Diploma</b>	<b>Course Materials- Management/ IT/ Engineering</b>
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<b>Agri Food Production</b>	<b><u>Tertiary Preparation-</u></b> Biology/Chemistry/ English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management	<b>Animal Handling</b>	<b><u>Tertiary Preparation-</u></b> Biology/Chemistry/ English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management
<b>Business Services</b>	<b><u>Tertiary Preparation-</u></b> English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management	<b>Chemical-Laboratory &amp; Water Operation</b>	<b><u>Tertiary Preparation</u></b> Maths/ Physics/ Chemistry/ English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management/ Diploma in Engineering/ Professional Diploma in Engineering/Bachelor of Engineering
<b>Community Service</b>	<b><u>Tertiary Preparation-</u></b> English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management	<b>Electrical Trades/ Construction</b>	<b><u>Tertiary Preparation-</u></b> Maths/ Physics/ Chemistry/ Design & Technology/ English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management/ Diploma in Engineering/ Professional Diploma in Engineering/Bachelor of Engineering
<b>Food Service</b>	<b><u>Tertiary Preparation</u></b> Chemistry/ Biology/English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management	<b>Health Services</b>	<b><u>Tertiary Preparation</u></b> Chemistry/ Biology/English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management
<b>ICT</b>	<b><u>Tertiary Preparation</u></b> Information Processing/ Software Design/ English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Information Technology/ Professional Diploma in Information Technology/ Bachelor of Applied Science (Information Technology)	<b>Library Information Cultural Services</b>	<b><u>Tertiary Preparation</u></b> English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management
<b>Manufacturing, Production &amp; Plant Operation</b>	<b><u>Tertiary Preparation</u></b> Maths/ Physics/ Chemistry/ Design & Technology/ English/ Myanmar- <b><u>Tertiary Course</u></b> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management/ Diploma in Management/ Professional Diploma in Management/ Bachelor of Business Management/ Diploma in Engineering/ Professional Diploma in Engineering/Bachelor of Engineering	<b>Marine Service</b>	<b><u>Tertiary Preparation</u></b> Maths/ Physics/ Chemistry/ Design & Technology/ English/ Myanmar – <b><u>Tertiary Course</u></b> Diploma in Marine Engineering/ Professional Diploma in Engineering/Bachelor of Engineering

<b>Metal &amp; Engineering</b>	<u><b>Tertiary Preparation</b></u> Maths/ Physics/ Chemistry/ Design & Technology/ English/ Myanmar <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management/ Diploma in Engineering/ Professional Diploma in Engineering/Bachelor of Engineering	<b>Performing</b>	<u><b>Tertiary Preparation</b></u> English/ Myanmar – <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management
<b>Property Services</b>	<u><b>Tertiary Preparation</b></u> Maths/ Physics/ Chemistry/ Design & Technology/ English/ Myanmar <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management	<b>Public Safety &amp; Personal Service</b>	<u><b>Tertiary Preparation</b></u> English/ Myanmar <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management
<b>Sales &amp; Marketing</b>	<u><b>Tertiary Preparation</b></u> English/ Myanmar – <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management	<b>Screen &amp; Media</b>	<u><b>Tertiary Preparation</b></u> English/ Myanmar – <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management
<b>Transport</b>	<u><b>Tertiary Preparation</b></u> English/ Myanmar – <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management	<b>Visual Art &amp; Craft</b>	<u><b>Tertiary Preparation</b></u> English/ Myanmar /Design & Technology- <u><b>Tertiary Course</b></u> Diploma in Work Studies/ Advanced Diploma in Work Studies/ Professional Diploma in Work Studies/Bachelor of Work Studies/ Professional Diploma in Management/ Diploma in Management/ Bachelor of Business Management

# HTML to PDF

Convert web pages or HTML files to PDF documents

- NEW Browser extension >
- 'Save as PDF' for your website >
- HTML to PDF API >

Convert URL to PDF

Convert HTML files

HTML code



 Upload HTML files ▾

Files stay private. Automatically deleted after 2 hours.  
Free service for documents up to 200 pages or 50 Mb and 3 tasks per hour.

## 'Save As PDF' Bookmarklet For Your Browser

Convert any web page to PDF with this browser extension

- 1

Press  +  + B to show the Bookmarks bar.
- 2

Drag the button below to your browser's Bookmarks Bar.

Save as PDF
- 3

You're done! Now load a web page in your browser and click the 'Save as PDF' bookmark to convert it to a PDF document.

## How To Convert HTML To PDF

Below we show how to convert web pages to PDF documents

### Step 1: Paste your web page URLs

Multiple web pages can be converted at a time. Paste each URL on a separate line.

### Step 2: Save PDF results

Click [Convert HTML to PDF](#), and wait until processing completes. Then press [Download](#) and save your PDF documents.

Ready to convert web pages to PDF? Let's go!

Convert web page to PDF >

## How To Add A 'Save To PDF' Link To Your Website

### Have a website? Let your visitors save your website's pages as PDF

Copy the code snippet below to your website:

```
<a href="https://www.sejda.com/html-to-pdf?save-link" target="_blank">Save to PDF</a>
```

Copy code More options in the docs See this in action

Contact Support

#### RESOURCES

- Pricing & Upgrade
- Sejda for Desktop
- Sejda for G Suite
- Developers
- Blog
- Free for Teachers

#### API

- HTML to PDF API

#### LEGAL

- Terms of Use
- Privacy Policy
- Cookie Policy
- Security

Made in Amsterdam  
© Sejda BV, building PDF tools since 2010.

Thank you for your time.

#### TOOLS

- Alternate & Mix PDF
- Bates Numbering PDF
- Compress PDF
- Crop PDF
- Delete PDF Pages
- Extract PDF Pages
- Fill & Sign PDF
- Grayscale PDF
- Header & Footer PDF
- HTML to PDF
- JPG to PDF
- Merge PDF
- N-up PDF
- OCR PDF
- PDF Editor
- PDF Page Numbers
- PDF to Excel
- PDF to JPG
- PDF to Text
- PDF to Word
- Protect PDF
- Repair PDF
- Resize PDF
- Rotate PDF
- Split PDF by bookmarks
- Split PDF by pages
- Split PDF by size
- Split PDF by text
- Split PDF in half
- Unlock PDF
- Visual Combine & Reorder PDF
- Watermark PDF
- Word to PDF

#### LANGUAGES

- Bahasa
- Indonesia
- Deutsch
- English
- Español
- Français
- Italiano
- 日本語
- Magyar
- Nederlands
- Norsk
- Polski
- Português
- Română
- Suomi
- Svenska
- ภาษาไทย
- Tiếng Việt
- Türkçe

#### CONTACT

- hi@sejda.com
- @SejdaPDF
- G+ Sejda PDF

The voluntary schools in Myanmar which want to be listed, please send the information about the schools to  
[highlightcomputergroup1@gmail.com](mailto:highlightcomputergroup1@gmail.com)

ဆရာတော်ဘဒ္ဒန္တဝိဇ္ဇာနန္ဒဦးစီးဖွင့်လှစ်သောကျောင်းများ။

Ven Ashin Wiza Nanda

ပညာရိပ်မွန်ဘုန်းတော်ကြီးသင်ပညာရေးကျောင်း

Pyin Nya Yeik Mon Monastic School & Education

ဇေယျာရိပ်သာ၊စစ်ကိုင်းမြို့၊စစ်ကိုင်းတိုင်း။

Zay Yar Quarter Saggaing Town, Saggaing Division,

Upper Myanmar

Contact

Ven Ashin Wiza Nanda



E-mail- nyogyi1@gmail.com

## Golden Education Foundation

<http://www.goldenlandfoundation.org>

Di Morrissey (Australian Author)

E mail - di@dimorrissey.com

Pyin Nya Yeik Mon Monastic School & Education is not only teaching the basic education courses, but also providing Vocational & Higher Education courses in Engineering, Information Technology and Management ranging from Certificate to Degree level of St Clements Technological University by co-operating with IQY Technical College

ပညာရိပ်မွန်ကျောင်းသည်အခြေခံပညာသာမကအသက်မွေးဝမ်းကျောင်းပညာအင်ဂျင်နီယာ၊

ကွန်ပျူတာ၊စီမံခန့်ခွဲမှုပညာတို့ကိုစိန့်ကလီးမင်နည်းပညာတက္ကသိုလ်၊IQY Technical College

တို့နှင့်ပူးပေါင်းသင်ကြားနေသည်။



## Other Schools

### (1) NLD Education Network, Mother's Ambition Education School

#### Address

No 82, Third Floor, Barani Street, 12 Ward, South Okkalapa Township, Yangon, Myanmar

#### Activities

Providing tutoring support for Year 9, 10 Students

Providing vocational & language education

Providing Australian Year 9 to 12 E-Learning

Providing Higher Education E-Learning

#### Photos of activities



### Organizer

Dr Saw Naing, U Tin Thein

### Contact

Phone: 095033687

ဆရာတော်ဘဒ္ဒန္တသုနန္ဒထောက်ပံ့ထားသောကျောင်းများ။

- (၁) ရှမ်းပြည်တောင်ပိုင်းဟိုပုံးမြို့နယ်၊ နောင်တောင်းကျေးရွာ၊  
နောင်တောင်းပရဟိတဘုန်းတော်ကြီးသင်ပညာသင်ကျောင်း  
သူငယ်တန်းမှဆယ်တန်း။
- (၂) မကွေးတိုင်းဒေသကြီး၊ မြို့သစ်မြို့နယ်၊ ထောက်ရှာတန်းရွာ၊  
အလယ်တန်းကျောင်း။

ဆက်သွယ်ရန်

ဆရာတော်ဘဒ္ဒန္တသုနန္ဒ  
ဖုန်း- ၂၁၃၃၀၅၈ / ၀၉-၆၅၃၇၄၁၂

## **(2) List of Orphanage Schools & Myanmar Buddhist Schools which teach the poor children of Myanmar**

Please see the link for providing the support and direct donation

[http://www.filefactory.com/file/4xmgqedogkhl/n/School\\_list.pdf](http://www.filefactory.com/file/4xmgqedogkhl/n/School_list.pdf)

## **(3) Nyaung Thone Pin Pariyatti Monastery**

### **Address**

Nyaung Thone Pin Pariyatti Monastery, Mogoke Township, Mandalay Division, Myanmar

### **Activities**

- Pariyatti Education
- School Education for poor students

### **Organizer**

Baddhanta Te Zaw Sara Bivumsa

### **Contact**

Phone: 05 9402522221, 95 8620120, 95 96537700,

Email: mgneru1@gmail.com

[www.youtube.com/Nyaung Thone Pin](http://www.youtube.com/NyaungThonePin)

## **(4) Beauty of Truth (Aa Hla Thit Sa) Voluntary Education School**

### **Address**

Pauk , Sagaing Division, Myanmar

### **Activities**

- Voluntary boarding school for poor children
- Primary Education

- Community Development

Please see the following link

<http://www.filefactory.com/file/6i4q1tqdo3fb/AaHlaThitSa.pptx>

### Organizer

Daw Lwin Lwin Myint, U Lu Maw Naing

U Maung Maung Myint (MDG Myanmar)

### Contact

Phone: 95-9425305429, 09 425305429

Email: mrsllwinlwin2011@gmail.com

### (5) Buddhist Voluntary Schools which are providing education to poor children of Myanmar (List 1)

၁)သီလရှင်စာသင်တိုက်

ရွှေပန်းပွင့်ဘုရားလမ်း၊ ကျောက်ရေတွင်းရပ်ကွက်၊ အမှတ်(၂၂)ကျောင်းအနီး၊ မြောက်ဥက္ကလာ

ဖုန်း - ၀၉ ၇၃၀ ၂၆၂၂၆

၂)ဆူထူးပန် သီရိမင်္ဂလာကန်တော် ဘုန်းတော်ကြီး ပညာသင်ကျောင်း

အလွတ်ဆွတ်ကျေးရွာ၊ အေးမေတ္တာရပ်ကွက်၊ သန်လျင်။

ဖုန်း - ၀၉ ၈၆၂ ၈၄၉၄

၃)အေးရိပ်သာကျောင်း

(၁၃၃) ရပ်ကွက်၊ တကောင်းလမ်း၊ ဒဂုံအရှေ့

ဖုန်း - ၀၉ ၄၃၀ ၅၆၆၀

၄)ရွှေငြိမ်စံကျောင်း

အုတ်ဖိုတောရ မဟာစည် သာသနာ့ရိပ်သာ၊ ဒဂုံမြို့သစ်အရှေ့ပိုင်း ၊ မလစ်အုပ်စု

ဖုန်း - ၀၉ ၈၆၃ ၁၇၀၉၊ ၀၁- ၅၉၉၄၁၂

၅)ပါရမီဖြည့်ဘုန်းတော်ကြီးကျောင်း

မှော်ဘီ ဂါးနတ်ချောင်းကျေးရွာ။

ဖုန်း - ၀၉ ၇၃၀ ၉၂၄၁၅၊ ၀၉ ၇၃၁ ၄၂၈၅၆

၆)ရွှေရတနာသီလရှင်ကျောင်း

အမှတ်(၂၀) ၊ မကွေးလမ်း၊ သံဒင်းရပ်ကွက်။

ဖုန်း -၀၁ ၆၁၁၅၂၃

၇) အောင်ဇေယျာမင်း မိဘမဲ့ ပရဟိတဘုန်းတော်ကြီးသင် ပညာရေးကျောင်း၊

အလယ်ကွက်ကြီးကျေးရွာ၊ ငွေပင်လယ်စက်မှုဇုန်အနီး(ရွှေပြည်သာ တံတားအဆင်း) လှိုင်သာယာ၊ ရန်ကုန်

ဖုန်း 613665

၈) ကုမာရရမ ပရဟိတကျောင်းတိုက်

အောင်သိဒ္ဓိလမ်း ၊ (၃) ရပ်ကွက် ၊ မရမ်းကုန်း

ဖုန်း -၀၉၇၃၈၃၁၈၇၅

ဖုန်း ၀၉၂၁၀၀၁၀၇၁

မူလတန်းမှ ပဉ္စမတန်းအထိ မိဘမဲ့ကလေး (၁၅၀)ဦး  
ကျောင်းသား ကျောင်းသူ (၃၅၀)ဦးအတွက်

**(6) Buddhist Voluntary Schools which are providing education to poor children of Myanmar (List 2)**

၉) မြန်တန်ဆာ ပရဟိတသီလရှင်ပညာရေးကျောင်း

၂၂ ရပ်ကွက် ရွှေပေါက်မြို့သစ် မြောက်ဥက္ကလာပ

ဖုန်း 09421075045

မူလတန်းမှ စတုတ္ထတန်းအထိ ကျောင်းသင်

ပဉ္စမတန်းမှ အဋ္ဌမတန်းအထိ တွဲဖက်သင်

နဝမတန်းမှ ဒသမတန်းအထိ ပြင်ပသင်

ကျောင်းသားကျောင်းသူ ၁၄၇ ဦး အတွက်

၁၀) သီရိမင်္ဂလာ (အုန်းတောကျောင်း)

ဖုန်း 0954022180

မူလတန်းမှ စတုတ္ထတန်းအထိ မိဘမဲ့ကလေး ၃၀ ဦး

ကျောင်းသား ၂၄၇ ဦးအတွက်

၁၁) မွေလင်္ကာရဘုန်းတော်ကြီးကျောင်း

ဘုန်းတော်ကြီးစာသင်တိုက် တွဲတေးမြို့

ဖုန်း: 095060663

မိဘမဲ့ကလေး: 168 ဦးအတွက်

၁၂) တိက္ခာရာမ ပရဟိတစာသင်ကျောင်း

၇/၈ လမ်းဆုံ မြောက်ဒဂုံ ဖုန်း: 0973024065

မူလတန်းမှ စတုတ္ထတန်းအထိ ကျောင်းသင်

ပဉ္စမတန်းမှ အဋ္ဌမတန်းအထိ တွဲဖက်သင်

မိဘမဲ့ကလေး (၁၅)ဦး

ကျောင်းသား ကျောင်းသူ (၃၅၀)ဦးအတွက်

၁၃) သီရိမင်္ဂလာဘုန်းတော်ကြီးသင်ပညာရေးကျောင်း

၁၂-ရပ်ကွက် ပေါ်ဦး ၆ လမ်း ဒဂုံအရှေ့ပိုင်း

ဖုန်း: 0943082166 ၊ 01-581023

သူငယ်တန်းမှ စတုတ္ထတန်းအထိ ကျောင်းသား ကျောင်းသူ (၁၈၀)ဦး နှင့်

ကျောင်းအောက်ခန်းကို ပြင်ဆင်ရန်အတွက်

၁၄) ပိတောက်ရွှေပါပရဟိတစာသင်ကျောင်း

မြောက်ဥက္ကလာပမြို့နယ်

ဖုန်း: 095680582 ၊ 056-22609



မိဘမဲ့ကလေး (၄၈၀) ဦး

ရပ်ကွက်နေ ကျောင်းသား (၁၂၀၀)ဦးအတွက်

**(7) Buddhist Voluntary Schools which are providing education to poor children of Myanmar (List 3)**

၁၅) ရဲမွန် ဘုန်းတော်ကြီးသင် ပညာရေးကျောင်း

ရဲမွန်စံပြကျေးရွာ လှည်းကူးမြို့နယ်

ကျောင်းသား ကျောင်းသူ ဦးရေ ၁၀၀ ခန့်အတွက်

၁၆) ကွမ်းခြံကုန်း ကံကြီး မကျီးရပ်ကွက်

ရွှေကျင် (ဂျား)ကျောင်း ပရိယတ္တိစာသင်တိုက်

ပရဟိတဘုန်းတော်ကြီးသင် ပညာရေးကျောင်း

ဆရာတော်ဘဒ္ဒန္တပညာဝရ

ဖုန်း - 01-265043/ 098640565

၁၇) အောင် (ပရဟိတကျောင်း)

ဖုန်း 098612292

မူလတန်းမှ အလယ်တန်းအထိ ကျောင်းသူ/သား ၁၂၇၀ ဦးအတွက်

၁၈) စိမ်းလမ်းမြေ (ပရဟိတဂေဟာ)

ဖောင်ကြီး

ဥက္ကဋ္ဌဖုန်း - 01-629758 / 0945525840

ဘဏ္ဍာရေးမှူးဖုန်း 01-558395 / 0973034500

ကျောင်းသား/သူ ၃၀ ကျော်

၁၉) မင်္ဂလာဘုန်းတော်ကြီးသင် ပညာရေးကျောင်း

ဖလှယ်ကြီး (ခ) ဘုရားကြီးကျေးရွာ တံတေးမြို့

ကျောင်းသား / သူ ၈၀၀ ကျော်အတွက်

၂၀) ကွမ်းခြံကုန်း ပရဟိတကျောင်း

မဟာဝိဇိရမင်္ဂလာပရဟိတစာသင်တိုက်

ကွမ်းခြံကုန်းမြို့

ပညာသင်ကြားနေကြသော ကျောင်းသား/သူများအတွက်

၂၁) မင်္ဂလာပရဟိတကျောင်း

ဝမ်းဘဲအင်းကျေးရွာ ဒေသစွန့်ပိတောင်အနီး ပဲခူး

**(8) Buddhist Voluntary Schools which are providing education to poor children of Myanmar (List 4)**

၂၂) မာဃဘုန်းတော်ကြီးသင်ပညာရေးကျောင်း

မိဘမဲ့ ကလေးများပိုင်းဝန်းကူညီစောင့်ရှောက်ပေး

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ကမ္ဘာကြီးပေါ်မှာရှိနေတဲ့ ရင်သွေးငယ်ပေါင်း များစွာဟာ ကံဆိုးနေရ ရှာတယ် ။ သူတို့လေးတွေဟာ ဆာလောင်ခြင်း နာကျင်ခြင်း၊ ငတ်မွတ်ခြင်းဆိုတဲ့ ဒုက္ခပေါင်း များစွာနဲ့ ကူညီသူမဲ့ဖြစ်နေရ ရှာပါတယ်။ ကျွန်တော်တို့ နေထိုင်ရာ မြန်မာပြည်မှာလည်း ရင်သွေးငယ်ပေါင်း များစွာဟာ ကံဆိုး နေကြဆဲပါ။ အမိအဖမဲ့ ရင်သွေးငယ်များ အတွက် ကျွန်တော်တို့ရဲ့ နွေးထွေးတဲ့ အကြင်နာဆေးဝါးလေးဟာ သူတို့လေးတွေ နှလုံးသားထဲမှာ လိုအပ်နေကြ ပါတယ်။

ကမ္ဘာကြီးကို ဆက်လက် ထိန်းသိမ်းစောင့်ရှောက် မည် မျိုးဆက်သစ် လူသား အရင်းအမြစ်များကို ကျွန်တော်တို့ရဲ့

**All the addresses are copied and expressed in this website**

**Education Website Administrator**

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# IQY- St Clements Education Group

[www.highlightcomputer.com](http://www.highlightcomputer.com)

Electronic Educational Information Service

- Engineering
- Information Technology
- Vocational Education
- Business Management
- Teacher Education

Online Lessons- [www.iqytechnicalcollege.com](http://www.iqytechnicalcollege.com)

Other site

<http://www.highlightcomputer.com/iqy.htm>

# MYANMAR BUDDHIST AND VOLUNTARY SCHOOLS SUPPORT WEBSITE

This website contains the contact and Year 9 to 12 Teaching Support Lessons for Myanmar Buddhist and Voluntary Schools

<a href="#"><u>Contact Addresses of voluntary schools</u></a>	<a href="#"><u>Year 9 to12 Study Support</u></a>	<a href="#"><u>Support for volunteer teachers</u></a>	<a href="#"><u>Advertisement</u></a>	<a href="#"><u>The list of higher education institutions which provide voluntary education to needy students of Myanmar</u></a>	<a href="#"><u>Myanmar Vocational Training Certificate</u></a>
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# Diploma in Teaching Practice

jointly taught by (St Clements Technological University/  
Singapore Institute of Engineering Technologists/ IQY Technical College)

## ENROLMENT LINK

**Click the following link & fill the form.**

<http://www.emailmeform.com/builder/form/tq48xQ6acb>

## REFERENCE SITE

[www.highlightcomputer.com/bedschoolvet.htm](http://www.highlightcomputer.com/bedschoolvet.htm)

## List of Subjects for Teaching Practice

ED101P Teaching Support

ED102P Application of Information Technology in School Education

ED103P Classroom Management

ED104P Teaching Portfolio

ED105P Inclusive Teaching

ED106P Subject Area Knowledge

ED107 Theory of Education, Educational Technology & Teaching Practice

ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )



ED107B-Education Technology (ED102) (Slide 61 to 100)  
ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)  
ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)  
ED107E-Teaching & Learning (Slide 141 to 160+ Slide 200 to 240 )  
ED107F-Inclusive Teaching (ED105 Inclusive Teaching Slide 161 to 200)  
ED107G-Evaluation & Assessment (Slide 301 to 320)

ED108 Curriculum Study , Teaching & Learning  
Interpreting Curriculums

## Study Sequence for Graduates

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

ED101P Teaching Support

ED102P Application of Information Technology in School Education

ED103P Classroom Management

ED104P Teaching Portfolio

ED105P Inclusive Teaching

## Study Sequence for Experienced Teachers

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

The following subjects can be exempted by presenting the reference letter from the school.

ED101 Teaching Support

ED103 Classroom Management

ED105 Inclusive Teaching

The following subject needs to be studied

ED102 Application of Information Technology in School Education

Teaching portfolio needs to be presented for the following subject

ED104 Teaching Portfolio

## REFERENCE EDUCATION THEORIES

ED 101 Theory of Education

ED 102 Education Technology

ED 103 Teaching Practice

ED 104 Lesson Planning

ED 105 Principle of Learning

ED 106 Interpreting Curriculums

## VIDEOS

IQY Teacher Training 1

<https://youtu.be/CHqmQ1lfwa4>

IQY Teacher Training 2

<https://youtu.be/i-VpgngRumw>

IQY Teacher Training 3

<https://youtu.be/eYujIkvdPYw>

IQY Teacher Training 4

<https://youtu.be/n9y49b5qO8g>

## TEACHER TRAINING- IQY-AUDIO Download Links

**VN860195.zip (96.74MB)**

<http://www.filefactory.com/file/6s4a0e57kz25/n/VN860195.zip>

**VN860197.zip (98.04MB)**

<http://www.filefactory.com/file/19yvqu2vqrdl/n/VN860197.zip>

**VN860196.zip (39.01MB)**

<http://www.filefactory.com/file/5ukezf8qmmb3/n/VN860196.zip>

**VN860136 (147MB)**

<http://www.filefactory.com/file/3wbq5wgon6zn/VN860136.zip>

## STUDY GUIDES & LESSONS

## ED101 to ED106

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

## ED107 Lessons

ED107 Exercises

[www.highlightcomputer.com/ED107Exercises.pdf](http://www.highlightcomputer.com/ED107Exercises.pdf)

ED107 Part 1 (Slide 1 to 20) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1071.pdf](http://www.highlightcomputer.com/ED1071.pdf)

ED107 Part 2 (Slide 21 to 40) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1072.pdf](http://www.highlightcomputer.com/ED1072.pdf)

ED107 Part 3 (Slide 41 to 60) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1073.pdf](http://www.highlightcomputer.com/ED1073.pdf)

ED107 Part 4 (Slide 61 to 80) ED107B-Education Technology (ED102) (Slide 61 to 100)

[www.highlightcomputer.com/ED1074.pdf](http://www.highlightcomputer.com/ED1074.pdf)

ED107 Part 5 (Slide 81 to 120) ED107B-Education Technology (ED102) (Slide 61 to 100)+ ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1075.pdf](http://www.highlightcomputer.com/ED1075.pdf)

ED107 Part 6 (Slide 121 to 140) ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1076.pdf](http://www.highlightcomputer.com/ED1076.pdf)

ED107 Part 7 (Slide 141 to 160) ED107E-Teaching & Learning (Slide 141 to 160)

[www.highlightcomputer.com/ED1077.pdf](http://www.highlightcomputer.com/ED1077.pdf)

ED107 Part 8 (Slide 161 to 180) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1078.pdf](http://www.highlightcomputer.com/ED1078.pdf)

ED107 Part 9 (Slide 181 to 200) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1079.pdf](http://www.highlightcomputer.com/ED1079.pdf)

ED107 Part 10 (Slide 201 to 220) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10710.pdf](http://www.highlightcomputer.com/ED10710.pdf)

ED107 Part 11 (Slide 221 to 240) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10711.pdf](http://www.highlightcomputer.com/ED10711.pdf)

ED107 Part 12 (Slide 241 to 260) ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10712.pdf](http://www.highlightcomputer.com/ED10712.pdf)

ED107 Part 13 (Slide 261 to 280) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10713.pdf](http://www.highlightcomputer.com/ED10713.pdf)

ED107 Part 14 (Slide 261 to 300) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10714.pdf](http://www.highlightcomputer.com/ED10714.pdf)

ED107 Part 15 (Slide 301 to 320)- ED107G-Evaluation & Assessment (Slide 301 to 320)

[www.highlightcomputer.com/ED10715.pdf](http://www.highlightcomputer.com/ED10715.pdf)

## ED108 Lessons

ED108 Exercises

[www.highlightcomputer.com/ED108Exercises.pdf](http://www.highlightcomputer.com/ED108Exercises.pdf)

ED108 Part 1 (Slide 1 to 20)

[www.highlightcomputer.com/ED1081.pdf](http://www.highlightcomputer.com/ED1081.pdf)

ED108 Part 2 (Slide 21 to 40)

[www.highlightcomputer.com/ED1082.pdf](http://www.highlightcomputer.com/ED1082.pdf)

ED108 Part 3 (Slide 41 to 60)

[www.highlightcomputer.com/ED1083.pdf](http://www.highlightcomputer.com/ED1083.pdf)

ED108 Part 4 (Slide 61 to 80)

[www.highlightcomputer.com/ED1084.pdf](http://www.highlightcomputer.com/ED1084.pdf)

ED108 Part 5 (Slide 81 to 100)

[www.highlightcomputer.com/ED1085.pdf](http://www.highlightcomputer.com/ED1085.pdf)

ED108 Part 6 (Slide 101 to 120)

[www.highlightcomputer.com/ED1086.pdf](http://www.highlightcomputer.com/ED1086.pdf)

ED108 Part 7 (Slide 121 to 140)

[www.highlightcomputer.com/ED1087.pdf](http://www.highlightcomputer.com/ED1087.pdf)

ED108 Part 8 (Slide 141 to 160)

[www.highlightcomputer.com/ED1088.pdf](http://www.highlightcomputer.com/ED1088.pdf)

**OPTIONAL**

**( Certificate in Vocational Education & Training-Engineering Technology Teaching)**

Online training & assignment

<http://www.highlightcomputer.com/gtc.htm>

## ADDITIONAL REFERENCES FOR ED107 LESSONS

ED 101 Theory of Education

[www.highlightcomputer.com/ED101.ppt](http://www.highlightcomputer.com/ED101.ppt)

ED 102 Education Technology

[www.highlightcomputer.com/ED102.ppt](http://www.highlightcomputer.com/ED102.ppt)

Integration of Learning Technology in Teaching & Learning Part 1

[http://youtu.be/bV\\_CJdY7fs0](http://youtu.be/bV_CJdY7fs0)

Technology in Classroom

<http://youtu.be/rzLQq6D6-OU>

ED 103 Teaching Practice

[www.highlightcomputer.com/ED103Part1.ppt](http://www.highlightcomputer.com/ED103Part1.ppt)

[www.highlightcomputer.com/ED103Part2.ppt](http://www.highlightcomputer.com/ED103Part2.ppt)

ED 104 Lesson Planning

[www.highlightcomputer.com/ED104.ppt](http://www.highlightcomputer.com/ED104.ppt)

ED 105 Principle of Learning



[www.highlightcomputer.com/ED105.ppt](http://www.highlightcomputer.com/ED105.ppt)

ED 106 Interpreting Curriculums

[www.highlightcomputer.com/ED106.ppt](http://www.highlightcomputer.com/ED106.ppt)

## ED101 to ED106 ASSIGNMENTS

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

# Diploma in Teaching Practice

jointly taught by (St Clements Technological University/  
Singapore Institute of Engineering Technologists/ IQY Technical College)

## ENROLMENT LINK

**Click the following link & fill the form.**

<http://www.emailmeform.com/builder/form/tq48xQ6acb>

## REFERENCE SITE

[www.highlightcomputer.com/bedschoolvet.htm](http://www.highlightcomputer.com/bedschoolvet.htm)

## List of Subjects for Teaching Practice

ED101P Teaching Support

ED102P Application of Information Technology in School Education

ED103P Classroom Management

ED104P Teaching Portfolio

ED105P Inclusive Teaching

ED106P Subject Area Knowledge

ED107 Theory of Education, Educational Technology & Teaching Practice

ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

ED107B-Education Technology (ED102) (Slide 61 to 100)  
ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)  
ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)  
ED107E-Teaching & Learning (Slide 141 to 160+ Slide 200 to 240 )  
ED107F-Inclusive Teaching (ED105 Inclusive Teaching Slide 161 to 200)  
ED107G-Evaluation & Assessment (Slide 301 to 320)

ED108 Curriculum Study , Teaching & Learning  
Interpreting Curriculums

## Study Sequence for Graduates

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

ED101P Teaching Support

ED102P Application of Information Technology in School Education

ED103P Classroom Management

ED104P Teaching Portfolio

ED105P Inclusive Teaching

## Study Sequence for Experienced Teachers

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

The following subjects can be exempted by presenting the reference letter from the school.

ED101 Teaching Support

ED103 Classroom Management

ED105 Inclusive Teaching

The following subject needs to be studied

ED102 Application of Information Technology in School Education

Teaching portfolio needs to be presented for the following subject

ED104 Teaching Portfolio

## REFERENCE EDUCATION THEORIES

ED 101 Theory of Education

ED 102 Education Technology

ED 103 Teaching Practice

ED 104 Lesson Planning

ED 105 Principle of Learning

ED 106 Interpreting Curriculums

## VIDEOS

IQY Teacher Training 1

<https://youtu.be/CHqmQ1lfwa4>

IQY Teacher Training 2

<https://youtu.be/i-VpgngRumw>

IQY Teacher Training 3

<https://youtu.be/eYujIkvdPYw>

IQY Teacher Training 4

<https://youtu.be/n9y49b5qO8g>

## TEACHER TRAINING- IQY-AUDIO Download Links

**VN860195.zip (96.74MB)**

<http://www.filefactory.com/file/6s4a0e57kz25/n/VN860195.zip>

**VN860197.zip (98.04MB)**

<http://www.filefactory.com/file/19yvqu2vqrdl/n/VN860197.zip>

**VN860196.zip (39.01MB)**

<http://www.filefactory.com/file/5ukezf8qmmb3/n/VN860196.zip>

**VN860136 (147MB)**

<http://www.filefactory.com/file/3wbq5wgon6zn/VN860136.zip>

## STUDY GUIDES & LESSONS

## ED101 to ED106

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

## ED107 Lessons

ED107 Exercises

[www.highlightcomputer.com/ED107Exercises.pdf](http://www.highlightcomputer.com/ED107Exercises.pdf)

ED107 Part 1 (Slide 1 to 20) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1071.pdf](http://www.highlightcomputer.com/ED1071.pdf)

ED107 Part 2 (Slide 21 to 40) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1072.pdf](http://www.highlightcomputer.com/ED1072.pdf)

ED107 Part 3 (Slide 41 to 60) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1073.pdf](http://www.highlightcomputer.com/ED1073.pdf)

ED107 Part 4 (Slide 61 to 80) ED107B-Education Technology (ED102) (Slide 61 to 100)

[www.highlightcomputer.com/ED1074.pdf](http://www.highlightcomputer.com/ED1074.pdf)

ED107 Part 5 (Slide 81 to 120) ED107B-Education Technology (ED102) (Slide 61 to 100)+ ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1075.pdf](http://www.highlightcomputer.com/ED1075.pdf)

ED107 Part 6 (Slide 121 to 140) ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1076.pdf](http://www.highlightcomputer.com/ED1076.pdf)

ED107 Part 7 (Slide 141 to 160) ED107E-Teaching & Learning (Slide 141 to 160)

[www.highlightcomputer.com/ED1077.pdf](http://www.highlightcomputer.com/ED1077.pdf)

ED107 Part 8 (Slide 161 to 180) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1078.pdf](http://www.highlightcomputer.com/ED1078.pdf)

ED107 Part 9 (Slide 181 to 200) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1079.pdf](http://www.highlightcomputer.com/ED1079.pdf)

ED107 Part 10 (Slide 201 to 220) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10710.pdf](http://www.highlightcomputer.com/ED10710.pdf)

ED107 Part 11 (Slide 221 to 240) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10711.pdf](http://www.highlightcomputer.com/ED10711.pdf)

ED107 Part 12 (Slide 241 to 260) ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10712.pdf](http://www.highlightcomputer.com/ED10712.pdf)

ED107 Part 13 (Slide 261 to 280) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10713.pdf](http://www.highlightcomputer.com/ED10713.pdf)

ED107 Part 14 (Slide 261 to 300) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10714.pdf](http://www.highlightcomputer.com/ED10714.pdf)

ED107 Part 15 (Slide 301 to 320)- ED107G-Evaluation & Assessment (Slide 301 to 320)

[www.highlightcomputer.com/ED10715.pdf](http://www.highlightcomputer.com/ED10715.pdf)

## ED108 Lessons

ED108 Exercises

[www.highlightcomputer.com/ED108Exercises.pdf](http://www.highlightcomputer.com/ED108Exercises.pdf)

ED108 Part 1 (Slide 1 to 20)

[www.highlightcomputer.com/ED1081.pdf](http://www.highlightcomputer.com/ED1081.pdf)



ED108 Part 2 (Slide 21 to 40)

[www.highlightcomputer.com/ED1082.pdf](http://www.highlightcomputer.com/ED1082.pdf)

ED108 Part 3 (Slide 41 to 60)

[www.highlightcomputer.com/ED1083.pdf](http://www.highlightcomputer.com/ED1083.pdf)

ED108 Part 4 (Slide 61 to 80)

[www.highlightcomputer.com/ED1084.pdf](http://www.highlightcomputer.com/ED1084.pdf)

ED108 Part 5 (Slide 81 to 100)

[www.highlightcomputer.com/ED1085.pdf](http://www.highlightcomputer.com/ED1085.pdf)

ED108 Part 6 (Slide 101 to 120)

[www.highlightcomputer.com/ED1086.pdf](http://www.highlightcomputer.com/ED1086.pdf)

ED108 Part 7 (Slide 121 to 140)

[www.highlightcomputer.com/ED1087.pdf](http://www.highlightcomputer.com/ED1087.pdf)

ED108 Part 8 (Slide 141 to 160)

[www.highlightcomputer.com/ED1088.pdf](http://www.highlightcomputer.com/ED1088.pdf)

**OPTIONAL**

**( Certificate in Vocational Education & Training-Engineering Technology Teaching)**

Online training & assignment

<http://www.highlightcomputer.com/gtc.htm>

## ADDITIONAL REFERENCES FOR ED107 LESSONS

ED 101 Theory of Education

[www.highlightcomputer.com/ED101.ppt](http://www.highlightcomputer.com/ED101.ppt)

ED 102 Education Technology

[www.highlightcomputer.com/ED102.ppt](http://www.highlightcomputer.com/ED102.ppt)

Integration of Learning Technology in Teaching & Learning Part 1

[http://youtu.be/bV\\_CJdY7fs0](http://youtu.be/bV_CJdY7fs0)

Technology in Classroom

<http://youtu.be/rzLQq6D6-OU>

ED 103 Teaching Practice

[www.highlightcomputer.com/ED103Part1.ppt](http://www.highlightcomputer.com/ED103Part1.ppt)

[www.highlightcomputer.com/ED103Part2.ppt](http://www.highlightcomputer.com/ED103Part2.ppt)

ED 104 Lesson Planning

[www.highlightcomputer.com/ED104.ppt](http://www.highlightcomputer.com/ED104.ppt)

ED 105 Principle of Learning

[www.highlightcomputer.com/ED105.ppt](http://www.highlightcomputer.com/ED105.ppt)

ED 106 Interpreting Curriculums

[www.highlightcomputer.com/ED106.ppt](http://www.highlightcomputer.com/ED106.ppt)

## ED101 to ED106 ASSIGNMENTS

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

# MYANMAR BUDDHIST SCHOOLS & VOLUNTARY SCHOOLS STUDY SUPPORT WEBSITE

<http://www.nldschoo.com>

This website contains English+ Myanmar Explanations of the tutoring lessons based on New South Wales & Western Australian school curriculum subjects.

The aim to develop this site is to provide the tutoring support for the students in Myanmar Buddhist Schools and Voluntary Schools including NLD Education Network Schools to acquire the international standard school education.

## Tutoring Lessons in Myanmar & English

## Reference Text Books

By studying the contents of this site, the students will acquire the following benefits

- Reading+ Listening skills in English Language
- Acquire Australian School Education
- Use of IT Skills in E- Learning
- Self learning practice

The lessons can be learnt by two ways

- Viewing the power-point lessons by using computer
- Viewing the JPEG image files and listening MP3 Audio files by using Portable DVD Players which are donated to Myanmar Buddhist Schools & Voluntary Schools

The students need to

- View the Lessons
- Copy the lessons
- Listen to both Myanmar & English Explanations of the lessons
- Do the exercises and submit the assignments
- Sit the examinations

The facilitators/ co-ordinators need to

- Download the lessons & unzip them
- Show the students which folders are to be studied on weekly basis by using computer or Portable DVD Player
- Supervise the students in their learning

# MYANMAR BUDDHIST SCHOOLS & VOLUNTARY SCHOOLS STUDY SUPPORT WEBSITE

This website contains English+ Myanmar Explanations of the tutoring lessons based on New South Wales & Western Australian school curriculum subjects.

<http://www.highlightcomputer.com/y712lessons.htm>

<a href="#">Year 11+12 Lessons</a>	<a href="#">Year 9+10 Lessons</a>	<a href="#">Certificate to Degree</a>	<a href="#">Volunteer Teachers Professional Development</a>
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The aim to develop this site is to provide the tutoring support for the students in Myanmar Buddhist Schools and Voluntary Schools including NLD Education Network Schools to acquire the international standard school education.

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- Use of IT Skills in E- Learning
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- View the Lessons
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- Do the exercises and submit the assignments

- Sit the examinations

The facilitators/ co-ordinators need to

- Download the lessons & unzip them
- Show the students which folders are to be studied on weekly basis by using computer or Portable DVD Player
- Supervise the students in their learning

### The Teacher who prepares the lessons

Sayar U Kyaw Naing Ed.D (STCTU),BE(EP)RIT,AGTI(EP)Pyi, MSEE(USA),M.Sc (Science Education)Curtin University-Western Australia, Post Grad Dip Sc Ed(Curtin), Grad Dip Ed (Adult Vocational Education)(TAFE-NSW),Cert IV TAE40110, MIEAust, RPEQ

Registered Teacher (Western Australian Teacher Registration Board)

Teacher of Electrical Engineering (TAFE-NSW)

## WRITTEN LESSONS+AUDIO FILES

### Year 11+12

### MATHEMATICS

[www.iqytechnicalcollege.com/Yr1112Maths1.zip](http://www.iqytechnicalcollege.com/Yr1112Maths1.zip)

### PHYSICS

[www.iqytechnicalcollege.com/Yr1112Physics.zip](http://www.iqytechnicalcollege.com/Yr1112Physics.zip)

### CHEMISTRY

[www.iqytechnicalcollege.com/Yr1112Chemistry.zip](http://www.iqytechnicalcollege.com/Yr1112Chemistry.zip)

### SCIENCE

[www.iqytechnicalcollege.com/Yr1112Science.zip](http://www.iqytechnicalcollege.com/Yr1112Science.zip)

## **DESIGN & TECHNOLOGY**

[www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip](http://www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip)

## **SOFTWARE DESIGN**

[www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip](http://www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip)

# VIDEOS

### **Year 11+12 WEEK 1**

#### **Mathematics**

Yr 11+12 Maths 1-Rationals, Polynomials, Equations **Maths (001) Yr11+12 to Maths (021) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip">http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip">http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip</a>

Video

<https://youtu.be/afPIKAOmLrA>

#### **Chemistry**

Yr 11+12 Chemistry 1-Carbon Chemistry **Chemistry (001) Y11+12 to Chemistry (042) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip">http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip">http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip</a>



## Design & Technology

Yr 11+12 Design & Technology 1-Basic Concepts **DesignTech (001) Y11+12 to Design Tech (029) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip">http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7ey1mbqmjsg1/Yr_11_12_Design_Technology_1_DVD_zip">http://www.filefactory.com/file/7ey1mbqmjsg1/Yr_11_12_Design_Technology_1_DVD_zip</a>

Video

<https://youtu.be/6cnLVR3BHeg>

## Physics

Yr 11+12 Physics 1-Gravity **Physics (001) Y11+12 to Physics (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip">http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip">http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip</a>

Video

<https://youtu.be/lxXmAfYWayc>

## Science

Yr 11+12 Science 1A-Physical and chemical properties of everyday substances **Science (001) Y11+12 to Science (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip">http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip">http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip</a>

## Software Design

Yr 11+12 Software Design 1-Rights and responsibilities of software developers **Software (001) Y11+12 to Software (027) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip">http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip">http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip</a>

Video

<https://youtu.be/mPBjzZnjHwU>

**Year 11+12 WEEK 2**

**Mathematics**

Yr 11+12 Maths 2-Circle Geometry **Maths (022) Yr11+12 to Maths (047) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip">http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip">http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip</a>

Video

<https://youtu.be/KxFAPQQBEec>

**Chemistry**

Yr 11+12 Chemistry 2a-Industrial uses & production of Organic Compounds **Chemistry (043) Y11+12 to Chemistry (085) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip">http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip">http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip</a>

**Design & Technology**

Yr 11+12 Design & Technology 2-Design Process **DesignTech (030) Y11+12 to Design Tech (050) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip">http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip">http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip</a>

DVD Player

Video

<https://youtu.be/AWMHwZuza4A>

### **Physics**

Yr 11+12 Physics 2-Projectile Motion **Physics (016) Y11+12 to Physics (058) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip">http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip">http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip</a>

Video

<https://youtu.be/QicnwF-pd9E>

### **Science**

Yr 11+12 Science 1B- Chemical effect on body skin **Science (035) Y11+12 to Science (077) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip">http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip">http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip</a>

Video

[https://youtu.be/kR\\_9\\_RMpBhM](https://youtu.be/kR_9_RMpBhM)

### **Software Design**

Yr 11+12 Software Design 2A- Software Development

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip">http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip">http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip</a>

Video

<https://youtu.be/ETaTh-p7S88>

## Year 11+12 WEEK 3

### Mathematics

Yr 11+12 Maths 3A-Plotting Graphs **Maths (048) Yr11+12 to Maths (073) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip">http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip">http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip</a>

Video

[https://youtu.be/V7DdiD\\_XXNg](https://youtu.be/V7DdiD_XXNg)

### Chemistry

Yr 11+12 Chemistry 3A-Electro-Chemistry **Chemistry (0086) Y11+12 to Chemistry (110) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip">http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip">http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology 3-Design Professions **DesignTech (051) Y11+12 to Design Tech (0062) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip">http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip">http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip</a>

Video

<https://youtu.be/WtpkEztrFHA>

### Physics

Yr 11+12 Physics 3-Newton Law of Universal Gravitation **Physics (059) Y11+12 to Physics (078) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip">http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip">http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip</a>
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Video

<https://youtu.be/7naPc7nLlv8>

## Science

Yr 11+12 Science 2A-Bionics **Science (078) Y11+12 to Science (130) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip">http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip">http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip</a>

Video

<https://youtu.be/zhUD3cC14AY>

## Software Design

Yr 11+12 Software Design 3A-Defining the problem **Software (054) Y11+12 to Software (091) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip">http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip">http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip</a>

Video

<https://youtu.be/L0XemUHW8Fg>

## Year 11+12 WEEK 4

## Mathematics

Yr 11+12 Maths 4 Quadratic equations **Maths (074) Yr11+12 to Maths (123) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip">http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip">http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip</a>

Video

<https://youtu.be/QNzf5Qhcho8>

## **Chemistry**

Yr 11+12 Chemistry3B Electrical Cells **Chemistry (111) Y11+12 to Chemistry (145) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip">http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip">http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip</a>

Video

[https://youtu.be/\\_OhRYtxiTS0](https://youtu.be/_OhRYtxiTS0)

## **Design & Technology**

Yr 11+12 Design & Technology 4-Factors affecting design **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip">http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip">http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip</a>

Video

<https://youtu.be/icoOEn26FZY>

## **Physics**

Yr 11+12 Physics 4-Measurement **Physics (0079) Y11+12 to Physics (095) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip">http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip">http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip</a>

Video

<https://youtu.be/5ObMFCjdTXM>

## **Science**

Yr 11+12 Science 3B-Communication system waves **Science (131) Y11+12 to Science (157) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip">http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip">http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip</a>

Video

<https://youtu.be/YISoC6caucE>

### Software Design

Yr 11+12 Software Design 3B-Modelling **Software (092) Y11+12 to Software (128) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip">http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip">http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip</a>

Video

<https://youtu.be/GDj4FremeOc>

### Year 11+12 WEEK 5

### Mathematics

Yr 11+12 Maths 5-Trigo Compound angles **Maths (124) Yr11+12 to Maths (133) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip">http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip">http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip</a>

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### Chemistry

Yr 11+12 Chemistry 3C-Electro-chemical Cells **Chemistry (146) Y11+12 to Chemistry (175) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip">http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip">http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip</a>

Video

<https://youtu.be/KnllmfAk1a4>

### **Design & Technology**

Yr 11+12 Design & Technology 5–Trends in Design Production **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip">http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip">http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip</a>

Video

<https://youtu.be/zO2LI1yzvAM>

### **Physics**

Yr 11+12 Physics 5A-Motor **Physics (096) Y11+12 to Physics (122) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip">http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip">http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip</a>

Video

<https://youtu.be/nKWckDIJpvA>

### **Science**

Yr 11+12 Science 4A-Fibres **Science (158) Y11+12 to Science (196) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip">http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip">http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip</a>

Video

<https://youtu.be/dUPn1De2iJA>

### **Software Design**

Yr 11+12 Software Design 4A–Design Patterns **Software (129) Y11+12 to Software (156) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip">http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip">http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip</a>

Video

<https://youtu.be/QAWiURC1X1M>

## **Year 11+12 WEEK 6**

### **Mathematics**

Yr 11+12 Maths –6 - Half Compound Angles **Maths (134) Yr11+12 to Maths (151) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip">http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip">http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip</a>

Video

<https://youtu.be/sxJcFi9JrPo>

### **Chemistry**

Yr 11+12 Chemistry –4A- Nuclear Chemistry **Chemistry (176) Y11+12 to Chemistry (211) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip">http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip">http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip</a>

Video

<https://youtu.be/-pYr7fxYEDw>

### **Design & Technology**

Yr 11+12 Design & Technology –6 - Design Techniques **DesignTech (162) Y11+12 to Design Tech (169) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip">http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip">http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip</a>

DVD Player

Video

<https://youtu.be/W6YSsRSe8QE>

### **Physics**

Yr 11+12 Physics –5B--DC Machines **Physics (123) Y11+12 to Physics (163) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip">http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6mk0jia1mbv/Yr_11_12_Physics_5B_DVD_zip">http://www.filefactory.com/file/6mk0jia1mbv/Yr_11_12_Physics_5B_DVD_zip</a>

Video

<https://youtu.be/OYvfoxZYvc>

### **Science**

Yr 11+12 Science -4B—Plastics **Science (197) Y11+12 to Science (228) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip">http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip">http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip</a>

Video

<https://youtu.be/se-3r2FdnNA>

### **Software Design**

Yr 11+12 Software Design 4B–Program Testing **Software (157) Y11+12 to Software (191) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip">http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip">http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip</a>

Video

<https://youtu.be/oBSGhNtW1iA>

### **Year 11+12 WEEK 7**

## **Mathematics**

Yr 11+12 Maths 7--Trigo Problems **Maths (152) Yr11+12 to Maths (155) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip">http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip">http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip</a>

Video

<https://youtu.be/7UxTaL-DCKk>

## **Chemistry**

Yr 11+12 Chemistry -4B--Nuclear Chemistry **Chemistry (212) Y11+12 to Chemistry (244) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip">http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip">http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip</a>

Video

<https://youtu.be/f6OaItASWfQ>

## **Design & Technology**

Yr 11+12 Design & Technology -7--Historical Cultural Influences **DesignTech (170) Y11+12 to Design Tech (170) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip">http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip">http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip</a>

Video

<https://youtu.be/jwKCsOyyJ7M>

## **Physics**

Yr 11+12 Physics 6---Generator **Physics (164) Y11+12 to Physics (174) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip">http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip">http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip</a>
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Video

<https://youtu.be/p-4hyJPMPMA>

## **Science**

Yr 11+12 Science -5A--Consumers' Products, Additives, Micro-organisms **Science (229) Y11+12 to Science (251) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip">http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip">http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip</a>

Video

<https://youtu.be/dUTGrwp49uA>

## **Software Design**

Yr 11+12 Software Design 4C -Arrays **Software (192) Y11+12 to Software (232) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2smhczi007/Yr_11_12_Software_Design_4C_PPT_zip">http://www.filefactory.com/file/2smhczi007/Yr_11_12_Software_Design_4C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip">http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip</a>

Video

<https://youtu.be/kHqLfDleww0>

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## **Year 11+12 WEEK 8**

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## **Chemistry**

Yr 11+12 Chemistry 5A-Properties of Acidic Oxides **Chemistry (245) Y11+12 to Chemistry (287) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip">http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip">http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip</a>
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## **Design & Technology**

Yr 11+12 Design & Technology –8-Creative & Collaborative Approaches in Design **DesignTech (171) Y11+12 to Design Tech (186) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip">http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip">http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip</a>

Video

<https://youtu.be/8W5DBEQ4Obk>

## **Physics**

Yr 11+12 Physics 7-Transformer **Physics (175) Y11+12 to Physics (201) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip">http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip">http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip</a>

Video

<https://youtu.be/jLFkXvMrQQw>

## **Science**

Yr 11+12 Science 5B–Microbes+ Natural Preservatives **Science (252) Y11+12 to Science (290) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip">http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip">http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip</a>

Video

<https://youtu.be/15YTietVnWM>

## **Software Design**

Yr 11+12 Software Design 4D–String Processing **Software (233) Y11+12 to Software (282) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip">http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip">http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip</a>

Video

<https://youtu.be/zTfLtmMLLgQ>

### **Software Design 4E**

<https://youtu.be/3H8got5LotQ>

### **Year 11+12 WEEK 9**

### **Mathematics**

Yr 11+12 Maths –8-Trigo Equations **Maths (156) Yr11+12 to Maths (180) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip">http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip">http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip</a>

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### **Chemistry**

Yr 11+12 Chemistry 5B–Properties of Acidic Oxides **Chemistry (288) Y11+12 to Chemistry (302) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip">http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip">http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip</a>

Video

<https://youtu.be/dAwX6y1fYSE>

### **Chemistry 6**

<https://youtu.be/CcgvTmll8Xg>

## Chemistry 6A

[https://youtu.be/\\_xRKf4aTIR8](https://youtu.be/_xRKf4aTIR8)

## Chemistry 6B

<https://youtu.be/7iWtCGIb7q4>

## Design & Technology

Yr 11+12 Design & Technology 9 –Design Solutions/ Design Briefs **DesignTech (187) Y11+12 to Design Tech (221) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip">http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip">http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip</a>

Video

<https://youtu.be/XI9svBSy0TM>

## Physics

Yr 11+12 Physics -8–Magnetisms & Moving Charges **Physics (202) Y11+12 to Physics (234) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip">http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip">http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip</a>

Video

<https://youtu.be/OPb0nrH6AaQ>

## Science

Yr 11+12 Science 6B – Circulatory System **Science (291) Y11+12 to Science (329) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip">http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip">http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip</a>

Video

Science 6A

<https://youtu.be/iQKITWfvEXQ>

Software Design

Yr 11+12 Software Design 5A-Interface Design **Software (283) Y11+12 to Software (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip">http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip">http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip</a>

Video

<https://youtu.be/xLxGd21ir8Q>

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Year 11+12 WEEK 10

Mathematics

Yr 11+12 Maths -9-Parabola **Maths (181) Yr11+12 to Maths (198) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip">http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip">http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip</a>

Video

<https://youtu.be/BJh6SRDxzVo>

Chemistry

Yr 11+12 Chemistry 7A -Application of PH **Chemistry (303) Y11+12 to Chemistry (348) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip">http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip">http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip</a>



Video

<https://youtu.be/VxBslUBsjTA>

### **Design & Technology**

Yr 11+12 Design & Technology 10A–Research Data Presentation **DesignTech (222) Y11+12 to Design Tech (286) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip">http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip">http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip</a>

Video

<https://youtu.be/ffQDLDFs54>

### **Design & Technology 10B**

<https://youtu.be/97Y7RNtkVjY>

### **Science**

Yr 11+12 Science 6C–Reproduction of Bacteria **Science (330) Y11+12 to Science (357) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip">http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip">http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 5B –Random Number Generator **Software (316) Y11+12 to Software (378) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip">http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip">http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip</a>

Video

<https://youtu.be/kg7cnxAb4D0>

### **Year 11+12 WEEK 11**

#### **Chemistry**

Yr 11+12 Chemistry 7B–Volumetric Analysis Titration **Chemistry (341) Y11+12 to Chemistry (373) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip">http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip">http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip</a>

Video

<https://youtu.be/5taFWZTGZ3I>

#### **Design & Technology**

Yr 11+12 Design & Technology 11-Marketing **DesignTech (287) Y11+12 to Design Tech (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip">http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip">http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip</a>

Video

<https://youtu.be/rpfdjbjlo90>

#### **Science**

Yr 11+12 Science 7A –Disasters **Science (358) Y11+12 to Science (418) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip">http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/69lgpi78j9xp/Yr_11_12_Science_7A_DVD_zip">http://www.filefactory.com/file/69lgpi78j9xp/Yr_11_12_Science_7A_DVD_zip</a>

#### **Software Design**

Yr 11+12 Software Design 5C–Program Counter+DLL +Compilation **Software (344) Y11+12 to Software (344) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip">http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip">http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip</a>

Video

<https://youtu.be/72CfwGKaY1s>

## **Year 11+12 WEEK 12**

### **Mathematics**

Yr 11+12 Maths-10 –Parametric Equations+ Permutation+ Combinations **Maths (199) Yr11+12 to Maths (224) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip">http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip">http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip</a>

Video

<https://youtu.be/Mzfxj6lydeQ>

### **Maths 11**

[https://youtu.be/4KFClr\\_MVyc](https://youtu.be/4KFClr_MVyc)

### **Chemistry**

Yr 11+12 Chemistry-8–Titration+ Esters

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip</a>

Video

<https://youtu.be/79ZBL1h8CBA>

### **Design & Technology**

Yr 11+12 Design & Technology-12 –Communications **DesignTech (317) Y11+12 to Design Tech (353) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip">http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip">http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip</a>

Video

<https://youtu.be/drEiGJX0dsc>

## Science

Yr 11+12 Science-7B –Seismic Waves+ Bush Fires **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip">http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip">http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip</a>

## Software Design

Yr 11+12 Software Design-5D –Optimiser **Software (379) Y11+12 to Software (410) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip">http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip">http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip</a>

Video

<https://youtu.be/lldV4rbjv30>

## Year 11+12 WEEK 13

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## Chemistry

Yr 11+12 Chemistry-8 -Titration+ Esters **Chemistry (374) Y11+12 to Chemistry (407) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip</a>

DVD Player	
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### Design & Technology

Yr 11+12 Design & Technology-13 –Computer Based Technologies **DesignTech (354) Y11+12 to Design Tech (392) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip">http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip">http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip</a>

Video

<https://youtu.be/lbZ3cwYPL9g>

<https://youtu.be/4z-CmJrepHk>

### Science

Yr 11+12 Science-8A –Atmosphere + Space Craft **Science (419) Y11+12 to Science (442) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip">http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip">http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip</a>

### Software Design

Yr 11+12 Software Design-5E –Documentations of Software Solutions **Software (411) Y11+12 to Software (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip">http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip">http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip</a>

Video

<https://youtu.be/VW4fk5sV4p4>

**Year 11+12 WEEK 14**

### Mathematics

Yr 11+12 Maths-12 –Factor Theorem + Remainder Theorem **Maths (225) Yr11+12 to Maths (240) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip">http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip">http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip</a>

Video

<https://youtu.be/20u2Jx6xnbw>

## **Chemistry**

Yr 11+12 Chemistry-9A –The Work of Chemist **Chemistry (408) Y11+12 to Chemistry (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip">http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip</a>

Video

<https://youtu.be/eepO1GLhtns>

## **Design & Technology**

Yr 11+12 Design & Technology 14B Management **DesignTech (393) Y11+12 to Design Tech (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

## **Design & Technology 14A**

<https://youtu.be/tK545SK9Tao>

## **Science**

Yr 11+12 Science -8B–Space Technology **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip">http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip">http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip</a>
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### Software Design

Yr 11+12 Software Design-6A –Testing the software solution **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip">http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip">http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip</a>

Video

<https://youtu.be/JwyNceTj5JI>

### Year 11+12 WEEK 15

### Mathematics

Yr 11+12 Maths-13 –Graphing Polynomials + Integration **Maths (241) Yr11+12 to Maths (258) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip">http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip">http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip</a>

Video

<https://youtu.be/hU00Wdtm8H0>

### Chemistry

Yr 11+12 Chemistry 9A –The work of chemist **Chemistry (434) Y11+12 to Chemistry (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology -14A-Managers+ Management Styles **DesignTech (434) Y11+12 to Design Tech (439) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip">http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

**Design & Technology 14B**

<https://youtu.be/j7DxOusOtfM>

### **Science**

Yr 11+12 Science-8C –Optical Telescope **Science (474) Y11+12 to Science (516) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip">http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip">http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design-6B –Driver Module **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip">http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip">http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip</a>

Video

<https://youtu.be/vu3bOR9KtrU>

**Year 11+12 WEEK 16**

### **Mathematics**

Yr 11+12 Maths 14 Integration Approximation **Maths (259) Yr11+12 to Maths (268) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip">http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip">http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip</a>
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Video

<https://youtu.be/BxoPyYDoSHk>

### **Chemistry**

Yr 11+12 Chemistry 9B –Atomic Absorption+ Spectrograph **Chemistry (445) Y11+12 to Chemistry (458) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip">http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

Video

<https://youtu.be/z9efzQuNePg>

### **Design & Technology**

Yr 11+12 Design & Technology -15–Organizational Structure **DesignTech (440) Y11+12 to Design Tech (463) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip">http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip">http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip</a>

Video

<https://youtu.be/xpbDhFJrLVo>

### **Science**

Yr 11+12 Science-6A –Central peripheral nervous system

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip">http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip">http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip</a>

Video

### **Science 6B**

<https://youtu.be/WzxCKpDquBI>

Science 6C

<https://youtu.be/raUa04nYcho>

Science 7A

<https://youtu.be/vhBQ7GliPSw>

Science 7B

[https://youtu.be/KjO\\_SLcRIsQ](https://youtu.be/KjO_SLcRIsQ)

Science 8A

<https://youtu.be/Guv-3nThBiM>

Science 8B

[https://youtu.be/8oMPx36Q\\_Pc](https://youtu.be/8oMPx36Q_Pc)

Software Design

Yr 11+12 Software Design-7 –Code Modification **Software (506) Y11+12 to Software (530) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip">http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip">http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip</a>

Video

<https://youtu.be/dKbdvz-vN8s>

**Year 11+12 WEEK 17**

**Mathematics**

Yr 11+12 Maths -15–Graphing Inverse Function **Maths (269) Yr11+12 to Maths (290) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip">http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip">http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip</a>

Video

<https://youtu.be/RXmABGXM3To>

### **Chemistry**

Yr 11+12 Chemistry -10A-Isomers+ Ozone + Water Analysis **Chemistry (459) Y11+12 to Chemistry (506) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/252l7enlc23j/Yr_11_12_Chemistry_10A_PPT_zip">http://www.filefactory.com/file/252l7enlc23j/Yr 11 12 Chemistry 10A PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17ocelpd5eol/Yr_11_12_Chemistry_10A_DVD_zip">http://www.filefactory.com/file/17ocelpd5eol/Yr 11 12 Chemistry 10A DVD zip</a>

Video

<https://youtu.be/9lCeJpMExqU>

### **Design & Technology**

Yr 11+12 Design & Technology-16 –Safety Issues **DesignTech (466) Y11+12 to Design Tech (488) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5vhtwszqhb3/Yr_11_12_Design_amp_Technology_16_PPT_zip">http://www.filefactory.com/file/5vhtwszqhb3/Yr 11 12 Design amp Technology 16 PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/14skzslec8a5/Yr_11_12_Design_amp_Technology_16_DVD_zip">http://www.filefactory.com/file/14skzslec8a5/Yr 11 12 Design amp Technology 16 DVD zip</a>

Video

<https://youtu.be/AuYSNtmo-IM>

### **Year 11+12 WEEK 18**

### **Mathematics**

Yr 11+12 Maths-16 –Trigo Evaluation **Maths (291) Yr11+12 to Maths (307) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip">http://www.filefactory.com/file/5zb7nx7gbde1/Yr 11 12 Maths-16 PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip">http://www.filefactory.com/file/5h29fm9lbw7v/Yr 11 12 Maths-16 DVD zip</a>

Video

<https://youtu.be/LGLHqnoVeS8>

### **Chemistry**

Yr 11+12 Chemistry-10B –Heavy Metal Pollution of Water **Chemistry (507) Y11+12 to Chemistry (541) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3ybo7fsparon/Yr_11_12_Chemistry_10B_PPT_zip">http://www.filefactory.com/file/3ybo7fsparon/Yr 11 12 Chemistry 10B PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2dbgudauuujh/Yr_11_12_Chemistry_10B_DVD_zip">http://www.filefactory.com/file/2dbgudauuujh/Yr 11 12 Chemistry 10B DVD zip</a>

Video

<https://youtu.be/lhJEjJpz11s>

### **Design & Technology**

Yr 11+12 Design & Technology 17- Evaluation **DesignTech (489) Y11+12 to Design Tech (517) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/yfisrp2mvp9/Yr_11_12_Design_amp_Technology_17_PPT_zip">http://www.filefactory.com/file/yfisrp2mvp9/Yr 11 12 Design amp Technology 17 PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wttf2utmwuf/Yr_11_12_Design_amp_Technology_17_DVD_zip">http://www.filefactory.com/file/6wttf2utmwuf/Yr 11 12 Design amp Technology 17 DVD zip</a>

Video

<https://youtu.be/98hxD-tn-Xs>

### **Software Design**

Yr 11+12 Software Design -8A–Defining problem and solution **Software (531) Y11+12 to Software (566) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ajj1hxfw091/Yr_11_12_Software_Design_8_A_PPT_zip">http://www.filefactory.com/file/ajj1hxfw091/Yr 11 12 Software Design 8 A PPT zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rpqkmlnk6h3/Yr_11_12_Software_Design_8_A_DVD_zip">http://www.filefactory.com/file/1rpqkmlnk6h3/Yr 11 12 Software Design 8 A DVD zip</a>

Video

[https://youtu.be/tvv3Qp\\_2HQ8](https://youtu.be/tvv3Qp_2HQ8)

### **Year 11+12 WEEK 19**

### **Mathematics**

Yr 11+12 Maths-17 –Integration + Application of Calculus **Maths (308) Yr11+12 to Maths (328) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip">http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip">http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip</a>

Video

<https://youtu.be/hD6b2SBJ0Fs>

**Chemistry**

Yr 11+12 Chemistry-6A –Natural & manufactured acid

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip">http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip">http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip</a>

Video

<https://youtu.be/Fz6PeH8yokI>

**Design & Technology**

Yr 11+12 Design & Technology-14B –Managers and management style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

<https://youtu.be/9qgLkRtvWTY>

**Software Design**

Yr 11+12 Software Design -8–Selection of software environment / Document design **Software (567) Y11+12 to Software (587) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip">http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip">http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip</a>

DVD Player

Video

: <https://youtu.be/CrFG2YFFnuQ>

### **Year 11+12 WEEK 20**

#### **Mathematics**

Yr 11+12 Maths-18 –Application of Calculus **Maths (329) Yr11+12 to Maths (330) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip">http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip">http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip</a>

Video

<https://youtu.be/I5M3dwR-c-E>

#### **Design & Technology**

Yr 11+12 Design & Technology-18A –Innovation **DesignTech (518) Y11+12 to Design Tech (524) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip">http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip">http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip</a>

Video

<https://youtu.be/PtzEaqUQoEQ>

### **Year 11+12 WEEK 21**

#### **Mathematics**

Yr 11+12 Maths-19 –Simple Harmonic Oscillation **Maths (331) Yr11+12 to Maths (344) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip">http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip">http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip</a>

Video

[https://youtu.be/\\_zb8d71E-QU](https://youtu.be/_zb8d71E-QU)

<https://youtu.be/OQCjs7CsMy8>

### **Design & Technology**

Yr 11+12 Design & Technology 18B Elements of innovation **DesignTech (525) Y11+12 to Design Tech (568) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip">http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip">http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip</a>

Video

<https://youtu.be/mqluRwTe7yA>

### **Software Design**

Yr 11+12 Software Design-9A –Generation of programming languages **Software (588) Y11+12 to Software (593) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip">http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip">http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip</a>

Video

<https://youtu.be/li0qJAO-CfA>

### **Year 11+12 WEEK 22**

### **Mathematics**

Yr 11+12 Maths 20 –Projectile Motion **Maths (344) Yr11+12 to Maths (360) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip">http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip">http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip</a>

Video

<https://youtu.be/ZoFwF8xlxHA>

### **Design & Technology**

Yr 11+12 Design & Technology -14B-Manager + Management Style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip">http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 9B History of programming languages **Software (594) Y11+12 to Software (602) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip">http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip">http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip</a>

Video

<https://youtu.be/BMmEjoHh3fM>

### **Year 11+12 WEEK 23**

### **Mathematics**

Yr 11+12 Maths 21 –Binomial Theorem **Maths (361) Yr11+12 to Maths (370) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip">http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip">http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip</a>

Video

<https://youtu.be/BTGRHmEG5d0>

### **Design & Technology**

Yr 11+12 Design & Technology-19 –Emerging Technologies **DesignTech (569) Y11+12 to Design Tech (591) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip">http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip">http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip</a>

Video

<https://youtu.be/9k3wlaipqSU>

### Software Design

Yr 11+12 Software Design -10A-Representation of Computer Data **Software (603) Y11+12 to Software (626) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip">http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/60wacfsz8mcy/n/Yr_11+12_Software_Design_10A_DVD.zip">http://www.filefactory.com/file/60wacfsz8mcy/n/Yr_11+12_Software_Design_10A_DVD.zip</a>

### Year 11+12 WEEK 24

### Mathematics

Yr 11+12 Maths-22 -Probability+ Binomial Distribution **Maths (371) Yr11+12 to Maths (387) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4y86h0clohzy/Yr_11_12_Maths-22_PPT_zip">http://www.filefactory.com/file/4y86h0clohzy/Yr_11_12_Maths-22_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip">http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip</a>

Video

<https://youtu.be/Lw75Cy0fzHc>

### Design & Technology

Yr 11+12 Design & Technology 20A Impact of design activities on individual society & environment **DesignTech (600) Y11+12 to Design Tech (610) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip">http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip">http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip</a>

Video

<https://youtu.be/RbxiFlcA3Co>

### Software Design

Yr 11+12 Software Design 10B –Logic Gates **Software (627) Y11+12 to Software (643) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip">http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip">http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip</a>

### Year 11+12 WEEK 25

### Mathematics

Yr 11+12 Maths 23–Changing Recurring Decimals in to Fractions **Maths (388) Yr11+12 to Maths (393) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip">http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip">http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip</a>

Video

<https://youtu.be/F4jP4NVEiW0>

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Yr 11+12 Maths 24 –Simplifying Algebraic Expression **Maths (394) Yr11+12 to Maths (415) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip">http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip">http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip</a>

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<https://youtu.be/fvqNKi-dSyU>

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## Design & Technology

Yr 11+12 Design & Technology 20B –Water Pollution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip">http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip">http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip</a>

## Year 11+12 WEEK 26

### Mathematics

Yr 11+12 Maths 25 Solving simultaneous equations **Maths (416) Yr11+12 to Maths (434) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip">http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip">http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip</a>

Video

<https://youtu.be/bLRBZcM-zsk>

## Design & Technology

Yr 11+12 Design & Technology 21A–Innovation Case Studies **DesignTech (612) Y11+12 to Design Tech (630) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip">http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip">http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip</a>

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## Year 11+12 WEEK 27

### Mathematics

Yr 11+12 Maths 26 –Percentage , discount **Maths (435) Yr11+12 to Maths (438) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip">http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip">http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip</a>
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Video

<https://youtu.be/9DzrWJHKLBO>

### **Design & Technology**

Yr 11+12 Design & Technology 21B Innovation Case Studies- Designer Aspect

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip">http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip">http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip</a>

### **Year 11+12 WEEK 28**

### **Mathematics**

Yr 11+12 Maths 27 –Geometry problems solving **Maths (439) Yr11+12 to Maths (461) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip">http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip">http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip</a>

Video

<https://youtu.be/jLHR9IP5sTQ>

### **Design & Technology**

Yr 11+12 Design & Technology 22A–Major Design Project **DesignTech (611) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip">http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip</a>
Link for JPEG+MP3 to	<a href="http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip">http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip</a>

view with portable DVD Player	
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## **Year 11+12 WEEK 29**

### **Mathematics**

Yr 11+12 Maths 28- Trigo function values **Maths (462) Yr11+12 to Maths (485) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip">http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip">http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip</a>

Video

<https://youtu.be/5iMZP3dAHs8>

### **Design & Technology**

Yr 11+12 Design & Technology 22B-Major Design Project Development/ Evaluation **DesignTech (631) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip">http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip">http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip</a>

## **Year 11+12 WEEK 30**

### **Mathematics**

Yr 11+12 Maths 29-Trigo ratio values **Maths (486) Yr11+12 to Maths (498) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip">http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip">http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip</a>

Video

<https://youtu.be/ABEJoLGBntk>

### **Mathematics**

Yr 11+12 Maths 30–Trigo problems, angle of elevation **Maths (499) Yr11+12 to Maths (509) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip">http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip">http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip</a>

Video

<https://youtu.be/UU2OO8iW2nk>

### **Mathematics**

Yr 11+12 Maths31 – XY Line gradient **Maths (510) Yr11+12 to Maths (527) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip">http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip">http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip</a>

Video

<https://youtu.be/lwoTQF7lhSI>

### **Mathematics**

Yr 11+12 Maths 32 - Mid points between points **Maths (528) Yr11+12 to Maths (551) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip">http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip">http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip</a>

Video

[https://youtu.be/FTr\\_FM61jwE](https://youtu.be/FTr_FM61jwE)

### **Year 11+12 WEEK 31**

## Mathematics

Yr 11+12 Maths 33 Angle of inclination / Graphs of functions **Maths (552) Yr11+12 to Maths (571) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip">http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip">http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip</a>

Video

<https://youtu.be/uZxfV88QXlg>

## Mathematics

Yr 11+12 Maths 34 Locus & Parabola **Maths (572) Yr11+12 to Maths (591) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip">http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip">http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip</a>

Video

<https://youtu.be/nggwEsSMNIM>

## Mathematics

Yr 11+12 Maths 35 Series **Maths (592) Yr11+12 to Maths (609) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip">http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip">http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip</a>

Video

[https://youtu.be/sj6NW\\_p-N-w](https://youtu.be/sj6NW_p-N-w)

## Mathematics

Yr 11+12 Maths 36 Tangent & Derivatives of Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip">http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip">http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip</a>
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## **Year 11+12 WEEK 32**

### **Mathematics**

Yr 11+12 Maths 37 Application of Geometrical Properties

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip">http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip">http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 38 –Co-ordinate Methods in Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip">http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip">http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 39 Plotting graph/ Maxima & Minima

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip">http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip">http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 40 Definite Integral



Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip">http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip">http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip</a>

### **Year 11+12 WEEK 33**

#### **Mathematics**

Yr 11+12 Maths 41 Exponential & Logarithmic Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip">http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip">http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 42 Trigonometric Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip">http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip">http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 43 Application of calculus to physical world

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip">http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip">http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip</a>

## Mathematics

Yr 11+12 Maths 44 Probability

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip">http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip">http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip</a>

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## Mathematics

Yr 11+12 Maths 45 Application of series

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip">http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip">http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip</a>

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## **EXERCISES**

[www.highlightcomputer.com/Y9101112Exercises.pdf](http://www.highlightcomputer.com/Y9101112Exercises.pdf)

# MYANMAR BUDDHIST SCHOOLS & VOLUNTARY SCHOOLS STUDY SUPPORT WEBSITE

This website contains English+ Myanmar Explanations of the tutoring lessons based on New South Wales & Western Australian school curriculum subjects.

<http://www.highlightcomputer.com/y712lessons.htm>

<a href="#">Year 11+12 Lessons</a>	<a href="#">Year 9+10 Lessons</a>	<a href="#">Certificate to Degree</a>	<a href="#">Volunteer Teachers Professional Development</a>
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The aim to develop this site is to provide the tutoring support for the students in Myanmar Buddhist Schools and Voluntary Schools including NLD Education Network Schools to acquire the international standard school education.

By studying the contents of this site, the students will acquire the following benefits

- Reading+ Listening skills in English Language
- Acquire Australian School Education
- Use of IT Skills in E- Learning
- Self learning practice

The lessons can be learnt by two ways

- Viewing the power-point lessons by using computer
- Viewing the JPEG image files and listening MP3 Audio files by using Portable DVD Players which are donated to Myanmar Buddhist Schools & Voluntary Schools

The students need to

- View the Lessons
- Copy the lessons
- Listen to both Myanmar & English Explanations of the lessons
- Do the exercises and submit the assignments

- Sit the examinations

The facilitators/ co-ordinators need to

- Download the lessons & unzip them
- Show the students which folders are to be studied on weekly basis by using computer or Portable DVD Player
- Supervise the students in their learning

### The Teacher who prepares the lessons

Sayar U Kyaw Naing Ed.D (STCTU),BE(EP)RIT,AGTI(EP)Pyi, MSEE(USA),M.Sc (Science Education)Curtin University-Western Australia, Post Grad Dip Sc Ed(Curtin), Grad Dip Ed (Adult Vocational Education)(TAFE-NSW),Cert IV TAE40110, MIEAust, RPEQ

Registered Teacher (Western Australian Teacher Registration Board)

Teacher of Electrical Engineering (TAFE-NSW)

## WRITTEN LESSONS+AUDIO FILES

### Year 11+12

### MATHEMATICS

[www.iqytechnicalcollege.com/Yr1112Maths1.zip](http://www.iqytechnicalcollege.com/Yr1112Maths1.zip)

### PHYSICS

[www.iqytechnicalcollege.com/Yr1112Physics.zip](http://www.iqytechnicalcollege.com/Yr1112Physics.zip)

### CHEMISTRY

[www.iqytechnicalcollege.com/Yr1112Chemistry.zip](http://www.iqytechnicalcollege.com/Yr1112Chemistry.zip)

### SCIENCE

[www.iqytechnicalcollege.com/Yr1112Science.zip](http://www.iqytechnicalcollege.com/Yr1112Science.zip)

## **DESIGN & TECHNOLOGY**

[www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip](http://www.iqytechnicalcollege.com/Yr1112 Design&Technology.zip)

## **SOFTWARE DESIGN**

[www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip](http://www.iqytechnicalcollege.com/Yr1112SoftwareDesign.zip)

# VIDEOS

### **Year 11+12 WEEK 1**

#### **Mathematics**

Yr 11+12 Maths 1-Rationals, Polynomials, Equations **Maths (001) Yr11+12 to Maths (021) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip">http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip">http://www.filefactory.com/file/3lgvs31i6kpi/Yr_11_12_Maths_1_DVD_zip</a>

Video

<https://youtu.be/afPIKAOmLrA>

#### **Chemistry**

Yr 11+12 Chemistry 1-Carbon Chemistry **Chemistry (001) Y11+12 to Chemistry (042) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip">http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip">http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip</a>

## Design & Technology

Yr 11+12 Design & Technology 1-Basic Concepts **DesignTech (001) Y11+12 to Design Tech (029) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip">http://www.filefactory.com/file/6h2dkyic7myv/Yr_11_12_Design_Technology_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7ey1mbqmjsg1/Yr_11_12_Design_Technology_1_DVD_zip">http://www.filefactory.com/file/7ey1mbqmjsg1/Yr_11_12_Design_Technology_1_DVD_zip</a>

Video

<https://youtu.be/6cnLVR3BHeg>

## Physics

Yr 11+12 Physics 1-Gravity **Physics (001) Y11+12 to Physics (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip">http://www.filefactory.com/file/38ofzxy4nnh7/Yr_11_12_Physics_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip">http://www.filefactory.com/file/63rck9dfn8uz/Yr_11_12_Physics_1_DVD_zip</a>

Video

<https://youtu.be/lxXmAfYWayc>

## Science

Yr 11+12 Science 1A-Physical and chemical properties of everyday substances **Science (001) Y11+12 to Science (015) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip">http://www.filefactory.com/file/1o184i6a1xf/Yr_11_12_Science_1A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip">http://www.filefactory.com/file/a1fhtw6u8i5/Yr_11_12_Science_1A_DVD_zip</a>

## Software Design

Yr 11+12 Software Design 1-Rights and responsibilities of software developers **Software (001) Y11+12 to Software (027) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip">http://www.filefactory.com/file/4i41ee7xkv87/Yr_11_12_Software_Design_1_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip">http://www.filefactory.com/file/33x81hahh9nf/Yr_11_12_Software_Design_1_DVD_zip</a>

Video

<https://youtu.be/mPBjzZnjHwU>

**Year 11+12 WEEK 2**

**Mathematics**

Yr 11+12 Maths 2-Circle Geometry **Maths (022) Yr11+12 to Maths (047) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3i9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip">http://www.filefactory.com/file/3i9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip">http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip</a>

Video

<https://youtu.be/KxFAPQQBEec>

**Chemistry**

Yr 11+12 Chemistry 2a-Industrial uses & production of Organic Compounds **Chemistry (043) Y11+12 to Chemistry (085) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip">http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip">http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip</a>

**Design & Technology**

Yr 11+12 Design & Technology 2-Design Process **DesignTech (030) Y11+12 to Design Tech (050) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip">http://www.filefactory.com/file/xl5nu78y82z/Yr_11_12_Design_amp_Technology_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip">http://www.filefactory.com/file/10iiaadvra71/Yr_11_12_Design_amp_Technology_2_DVD_zip</a>

DVD Player

Video

<https://youtu.be/AWMHwZuza4A>

### **Physics**

Yr 11+12 Physics 2-Projectile Motion **Physics (016) Y11+12 to Physics (058) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip">http://www.filefactory.com/file/peqs8n39qdl/Yr_11_12_Physics_2_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip">http://www.filefactory.com/file/3wjvy9yb6cyv/Yr_11_12_Physics_2_DVD_zip</a>

Video

<https://youtu.be/QicnwF-pd9E>

### **Science**

Yr 11+12 Science 1B- Chemical effect on body skin **Science (035) Y11+12 to Science (077) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip">http://www.filefactory.com/file/4k53ai7zz3al/Yr_11_12_Science_1B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip">http://www.filefactory.com/file/58phr5mg5jrp/Yr_11_12_Science_1B_DVD_zip</a>

Video

[https://youtu.be/kR\\_9\\_RMpBhM](https://youtu.be/kR_9_RMpBhM)

### **Software Design**

Yr 11+12 Software Design 2A- Software Development

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip">http://www.filefactory.com/file/31zikrytqpv7/Yr11_12_Software_Design_2_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip">http://www.filefactory.com/file/3yqf54xlozgp/Yr_11_12_Software_Design_2_A_DVD_zip</a>

Video

<https://youtu.be/ETaTh-p7S88>



## Year 11+12 WEEK 3

### Mathematics

Yr 11+12 Maths 3A-Plotting Graphs **Maths (048) Yr11+12 to Maths (073) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip">http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip">http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip</a>

Video

[https://youtu.be/V7DdiD\\_XXNg](https://youtu.be/V7DdiD_XXNg)

### Chemistry

Yr 11+12 Chemistry 3A-Electro-Chemistry **Chemistry (0086) Y11+12 to Chemistry (110) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip">http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip">http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology 3-Design Professions **DesignTech (051) Y11+12 to Design Tech (0062) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip">http://www.filefactory.com/file/3orxdb5wac1f/Yr_11_12_Design_amp_Technology_3_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip">http://www.filefactory.com/file/1m2dvqt3oamn/Yr_11_12_Design_amp_Technology_3_DVD_zip</a>

Video

<https://youtu.be/WtpkEztrFHA>

### Physics

Yr 11+12 Physics 3-Newton Law of Universal Gravitation **Physics (059) Y11+12 to Physics (078) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip">http://www.filefactory.com/file/3nw97wiqv44h/Yr_11_12_Physics_3_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip">http://www.filefactory.com/file/1wdq66z07fw3/Yr_11_12_Physics_3_DVD_zip</a>
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Video

<https://youtu.be/7naPc7nLlv8>

## Science

Yr 11+12 Science 2A-Bionics **Science (078) Y11+12 to Science (130) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip">http://www.filefactory.com/file/2onjzls6m8l7/Yr_11_12_Science_2A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip">http://www.filefactory.com/file/1bj881t4g30l/Yr_11_12_Science_2A_DVD_zip</a>

Video

<https://youtu.be/zhUD3cC14AY>

## Software Design

Yr 11+12 Software Design 3A-Defining the problem **Software (054) Y11+12 to Software (091) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip">http://www.filefactory.com/file/5pb1nap5gro9/Yr_11_12_Software_Design_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip">http://www.filefactory.com/file/38iepya8p16j/Yr_11_12_Software_Design_3A_DVD_zip</a>

Video

<https://youtu.be/L0XemUHW8Fg>

## Year 11+12 WEEK 4

## Mathematics

Yr 11+12 Maths 4 Quadratic equations **Maths (074) Yr11+12 to Maths (123) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip">http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip">http://www.filefactory.com/file/1l2f3d8fpaet/Yr_11_12_Maths_4_DVD_zip</a>

Video

<https://youtu.be/QNzf5Qhcho8>

## **Chemistry**

Yr 11+12 Chemistry3B Electrical Cells **Chemistry (111) Y11+12 to Chemistry (145) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip">http://www.filefactory.com/file/68bkp2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip">http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip</a>

Video

[https://youtu.be/\\_OhRYtxiTS0](https://youtu.be/_OhRYtxiTS0)

## **Design & Technology**

Yr 11+12 Design & Technology 4-Factors affecting design **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip">http://www.filefactory.com/file/7kgcjihwlt1j/Yr_11_12_Design_amp_Technology_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip">http://www.filefactory.com/file/4y5wq0f0kgxb/Yr_11_12_Design_amp_Technology_4_DVD_zip</a>

Video

<https://youtu.be/icoOEn26FZY>

## **Physics**

Yr 11+12 Physics 4-Measurement **Physics (0079) Y11+12 to Physics (095) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip">http://www.filefactory.com/file/5gljw7kfdorh/Yr_11_12_Physics_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip">http://www.filefactory.com/file/1rddcg0if6uf/Yr_11_12_Physics_4_DVD_zip</a>

Video

<https://youtu.be/5ObMFCjdTXM>

## **Science**

Yr 11+12 Science 3B-Communication system waves **Science (131) Y11+12 to Science (157) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip">http://www.filefactory.com/file/3nizl54swhfp/Yr_11_12_Science_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip">http://www.filefactory.com/file/5ymx6lu4v929/Yr_11_12_Science_3B_DVD_zip</a>

Video

<https://youtu.be/YISoC6caucE>

### Software Design

Yr 11+12 Software Design 3B-Modelling **Software (092) Y11+12 to Software (128) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip">http://www.filefactory.com/file/6opoj6nrq1uf/Yr_11_12_Software_Design_3B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip">http://www.filefactory.com/file/2b4dk1kxj6gb/Yr_11_12_Software_Design_3B_DVD_zip</a>

Video

<https://youtu.be/GDj4FremeOc>

### Year 11+12 WEEK 5

### Mathematics

Yr 11+12 Maths 5-Trigo Compound angles **Maths (124) Yr11+12 to Maths (133) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip">http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip">http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip</a>

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### Chemistry

Yr 11+12 Chemistry 3C-Electro-chemical Cells **Chemistry (146) Y11+12 to Chemistry (175) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip">http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip">http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip</a>

Video

<https://youtu.be/KnllmfAk1a4>

### **Design & Technology**

Yr 11+12 Design & Technology 5–Trends in Design Production **DesignTech (141) Y11+12 to Design Tech (161) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip">http://www.filefactory.com/file/febizarmz9z/Yr_11_12_Design_amp_Technology_5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip">http://www.filefactory.com/file/7i9l28b7vbsn/Yr_11_12_Design_amp_Technology_5_DVD_zip</a>

Video

<https://youtu.be/zO2LI1yzvAM>

### **Physics**

Yr 11+12 Physics 5A-Motor **Physics (096) Y11+12 to Physics (122) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip">http://www.filefactory.com/file/73xcfb02vnqd/Yr_11_12_physics_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip">http://www.filefactory.com/file/6soniig57871/Yr_11_12_physics_5A_DVD_zip</a>

Video

<https://youtu.be/nKWckDIJpvA>

### **Science**

Yr 11+12 Science 4A-Fibres **Science (158) Y11+12 to Science (196) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip">http://www.filefactory.com/file/59h5k11ibn3x/Yr_11_12_Science_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip">http://www.filefactory.com/file/1qtz6spfhkzt/Yr_11_12_Science_4A_DVD_zip</a>

Video

<https://youtu.be/dUPn1De2iJA>

### **Software Design**

Yr 11+12 Software Design 4A–Design Patterns **Software (129) Y11+12 to Software (156) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip">http://www.filefactory.com/file/2jx1tl9q3bo3/Yr_11_12_Software_Design_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip">http://www.filefactory.com/file/3v67gn0fc95j/Yr_11_12_Software_Design_4A_DVD_zip</a>

Video

<https://youtu.be/QAWiURC1X1M>

## **Year 11+12 WEEK 6**

### **Mathematics**

Yr 11+12 Maths –6 - Half Compound Angles **Maths (134) Yr11+12 to Maths (151) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip">http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip">http://www.filefactory.com/file/jvxnubyijdz/Yr_11_12_Maths-6_DVD_zip</a>

Video

<https://youtu.be/sxJcFi9JrPo>

### **Chemistry**

Yr 11+12 Chemistry –4A- Nuclear Chemistry **Chemistry (176) Y11+12 to Chemistry (211) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip">http://www.filefactory.com/file/1j9qnfeuu4wn/Yr_11_12_Chemistry_4A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip">http://www.filefactory.com/file/11pop4e77uu3/Yr_11_12_Chemistry_4A_DVD_zip</a>

Video

<https://youtu.be/-pYr7fxYEDw>

### **Design & Technology**

Yr 11+12 Design & Technology –6 - Design Techniques **DesignTech (162) Y11+12 to Design Tech (169) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip">http://www.filefactory.com/file/2soqe4fnwp5n/Yr_11_12_Design_amp_Technology_6_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip">http://www.filefactory.com/file/74ldosb9mtlr/Yr_11_12_Design_amp_Technology_6_DVD_zip</a>

DVD Player

Video

<https://youtu.be/W6YSsRSe8QE>

### **Physics**

Yr 11+12 Physics –5B--DC Machines **Physics (123) Y11+12 to Physics (163) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip">http://www.filefactory.com/file/7f10wt5idbrn/Yr_11_12_Physics_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6mk0jia1lmbv/Yr_11_12_Physics_5B_DVD_zip">http://www.filefactory.com/file/6mk0jia1lmbv/Yr_11_12_Physics_5B_DVD_zip</a>

Video

<https://youtu.be/OYvfoxZYvc>

### **Science**

Yr 11+12 Science -4B—Plastics **Science (197) Y11+12 to Science (228) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip">http://www.filefactory.com/file/276iqkxda2l/Yr_11_12_Science_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip">http://www.filefactory.com/file/7hhnabt4z9gd/Yr_11_12_Science_4B_DVD_zip</a>

Video

<https://youtu.be/se-3r2FdnNA>

### **Software Design**

Yr 11+12 Software Design 4B–Program Testing **Software (157) Y11+12 to Software (191) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip">http://www.filefactory.com/file/1jpozv9ms1p1/Yr_11_12_Software_Design_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip">http://www.filefactory.com/file/62d95fc55r8j/Yr_11_12_Software_Design_4B_DVD_zip</a>

Video

<https://youtu.be/oBSGhNtW1iA>

### **Year 11+12 WEEK 7**

## **Mathematics**

Yr 11+12 Maths 7--Trigo Problems **Maths (152) Yr11+12 to Maths (155) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip">http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip">http://www.filefactory.com/file/782mayimgrwr/Yr_11_12_Maths-7_DVD_zip</a>

Video

<https://youtu.be/7UxTaL-DCKk>

## **Chemistry**

Yr 11+12 Chemistry -4B--Nuclear Chemistry **Chemistry (212) Y11+12 to Chemistry (244) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip">http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip">http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip</a>

Video

<https://youtu.be/f6OaItASWfQ>

## **Design & Technology**

Yr 11+12 Design & Technology -7--Historical Cultural Influences **DesignTech (170) Y11+12 to Design Tech (170) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip">http://www.filefactory.com/file/28ge6g8t95nf/Yr_11_12_Design_amp_Technology_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip">http://www.filefactory.com/file/2u221ebddzgh/Yr_11_12_Design_amp_Technology_7_DVD_zip</a>

Video

<https://youtu.be/jwKCsOyyJ7M>

## **Physics**

Yr 11+12 Physics 6---Generator **Physics (164) Y11+12 to Physics (174) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip">http://www.filefactory.com/file/6nxgc3z9jx3j/Yr_11_12_Physics_6_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip">http://www.filefactory.com/file/77d559jdpzbh/Yr_11_12_Physics_6_DVD_zip</a>
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Video

<https://youtu.be/p-4hyJPMPMA>

## **Science**

Yr 11+12 Science -5A--Consumers' Products, Additives, Micro-organisms **Science (229) Y11+12 to Science (251) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip">http://www.filefactory.com/file/v2xs46ydgwh/Yr_11_12_Science_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip">http://www.filefactory.com/file/62yc00coouit/Yr_11_12_Science_5A_DVD_zip</a>

Video

<https://youtu.be/dUTGrwp49uA>

## **Software Design**

Yr 11+12 Software Design 4C -Arrays **Software (192) Y11+12 to Software (232) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2smhczibe007/Yr_11_12_Software_Design_4C_PPT_zip">http://www.filefactory.com/file/2smhczibe007/Yr_11_12_Software_Design_4C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip">http://www.filefactory.com/file/578udxs1n0un/Yr_11_12_Software_Design_4C_DVD_zip</a>

Video

<https://youtu.be/kHqLfDleww0>

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## **Year 11+12 WEEK 8**

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## **Chemistry**

Yr 11+12 Chemistry 5A-Properties of Acidic Oxides **Chemistry (245) Y11+12 to Chemistry (287) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip">http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip">http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip</a>
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## **Design & Technology**

Yr 11+12 Design & Technology –8-Creative & Collaborative Approaches in Design **DesignTech (171) Y11+12 to Design Tech (186) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip">http://www.filefactory.com/file/7hqlbl3smv2h/Yr_11_12_Design_amp_Technology_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip">http://www.filefactory.com/file/3m8mjwl1x87/Yr_11_12_Design_amp_Technology_8_DVD_zip</a>

Video

<https://youtu.be/8W5DBEQ4Obk>

## **Physics**

Yr 11+12 Physics 7-Transformer **Physics (175) Y11+12 to Physics (201) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip">http://www.filefactory.com/file/6nztg0vhjlat/Yr_11_12_Physics_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip">http://www.filefactory.com/file/1ynwo2ihuq2r/Yr_11_12_Physics_7_DVD_zip</a>

Video

<https://youtu.be/jLFkXvMrQQw>

## **Science**

Yr 11+12 Science 5B–Microbes+ Natural Preservatives **Science (252) Y11+12 to Science (290) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip">http://www.filefactory.com/file/5db58wg2693b/Yr_11_12_Science_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip">http://www.filefactory.com/file/v2k2dtvengf/Yr_11_12_Science_5B_DVD_zip</a>

Video

<https://youtu.be/15YTietVnWM>

## **Software Design**

Yr 11+12 Software Design 4D–String Processing **Software (233) Y11+12 to Software (282) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip">http://www.filefactory.com/file/4arzf4g1ra4n/Yr_11_12_Software_Design_4D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip">http://www.filefactory.com/file/660feougxrmx/Yr_11_12_Software_Design_4D_DVD_zip</a>

Video

<https://youtu.be/zTfLtmMLLgQ>

### **Software Design 4E**

<https://youtu.be/3H8got5LotQ>

### **Year 11+12 WEEK 9**

### **Mathematics**

Yr 11+12 Maths –8-Trigo Equations **Maths (156) Yr11+12 to Maths (180) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip">http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip">http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip</a>

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### **Chemistry**

Yr 11+12 Chemistry 5B–Properties of Acidic Oxides **Chemistry (288) Y11+12 to Chemistry (302) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip">http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip">http://www.filefactory.com/file/55f2o4jbd4aj/Yr_11_12_Chemistry_5_B_DVD_zip</a>

Video

<https://youtu.be/dAwX6y1fYSE>

### **Chemistry 6**

<https://youtu.be/CcgvTmll8Xg>

## Chemistry 6A

[https://youtu.be/\\_xRKf4aTIR8](https://youtu.be/_xRKf4aTIR8)

## Chemistry 6B

<https://youtu.be/7iWtCGIb7q4>

## Design & Technology

Yr 11+12 Design & Technology 9 –Design Solutions/ Design Briefs **DesignTech (187) Y11+12 to Design Tech (221) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip">http://www.filefactory.com/file/4h9t8kot3vkr/Yr_11_12_Design_amp_Technology_9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip">http://www.filefactory.com/file/5lhqea1xgj1x/Yr_11_12_Design_amp_Technology_9_DVD_zip</a>

Video

<https://youtu.be/XI9svBSy0TM>

## Physics

Yr 11+12 Physics -8–Magnetisms & Moving Charges **Physics (202) Y11+12 to Physics (234) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip">http://www.filefactory.com/file/x9thcvnunhh/Yr_11_12_Physics_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip">http://www.filefactory.com/file/c6kc8qcchfb/Yr_11_12_Physics_8_DVD_zip</a>

Video

<https://youtu.be/OPb0nrH6AaQ>

## Science

Yr 11+12 Science 6B – Circulatory System **Science (291) Y11+12 to Science (329) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip">http://www.filefactory.com/file/1u11lqkdjz3b/Yr_11_12_Science_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip">http://www.filefactory.com/file/9xue6qgim7z/Yr_11_12_Science_6B_DVD_zip</a>

Video

Science 6A

<https://youtu.be/iQKITWfvEXQ>

Software Design

Yr 11+12 Software Design 5A-Interface Design **Software (283) Y11+12 to Software (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip">http://www.filefactory.com/file/3hh5uvmnzs7/Yr_11_12_Software_Design_5A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip">http://www.filefactory.com/file/1qsd0ucgswf5/Yr_11_12_Software_Design_5A_DVD_zip</a>

Video

<https://youtu.be/xLxGd21ir8Q>

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Year 11+12 WEEK 10

Mathematics

Yr 11+12 Maths -9-Parabola **Maths (181) Yr11+12 to Maths (198) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip">http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip">http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip</a>

Video

<https://youtu.be/BJh6SRDxzVo>

Chemistry

Yr 11+12 Chemistry 7A -Application of PH **Chemistry (303) Y11+12 to Chemistry (348) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip">http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip">http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip</a>

Video

<https://youtu.be/VxBslUBsjTA>

### **Design & Technology**

Yr 11+12 Design & Technology 10A–Research Data Presentation **DesignTech (222) Y11+12 to Design Tech (286) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip">http://www.filefactory.com/file/1rhgbjn2ycvd/Yr_11_12_Design_amp_Technology_10_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip">http://www.filefactory.com/file/33c9z3wzfofz/Yr_11_12_Design_amp_Technology_10_A_DVD_zip</a>

Video

<https://youtu.be/ffQDLDFs54>

### **Design & Technology 10B**

<https://youtu.be/97Y7RNtkVjY>

### **Science**

Yr 11+12 Science 6C–Reproduction of Bacteria **Science (330) Y11+12 to Science (357) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip">http://www.filefactory.com/file/rh09iwm0cef/Yr_11_12_Science_6C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip">http://www.filefactory.com/file/2xyfjvtun4qp/Yr_11_12_Science_6C_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 5B –Random Number Generator **Software (316) Y11+12 to Software (378) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip">http://www.filefactory.com/file/11w5hdqhwjwv/Yr_11_12_Software_Design_5B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip">http://www.filefactory.com/file/5iyp2ls35tn3/Yr_11_12_Software_Design_5B_DVD_zip</a>

Video

<https://youtu.be/kg7cnxAb4D0>

### **Year 11+12 WEEK 11**

#### **Chemistry**

Yr 11+12 Chemistry 7B–Volumetric Analysis Titration **Chemistry (341) Y11+12 to Chemistry (373) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip">http://www.filefactory.com/file/79xmh8hzaf3p/Yr_11_12_Chemistry_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip">http://www.filefactory.com/file/1i1kkiikdmnh/Yr_11_12_Chemistry_7B_DVD_zip</a>

Video

<https://youtu.be/5taFWZTGZ3I>

#### **Design & Technology**

Yr 11+12 Design & Technology 11-Marketing **DesignTech (287) Y11+12 to Design Tech (316) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip">http://www.filefactory.com/file/68r77gh4etyr/Yr_11_12_Design_amp_Technology_11_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip">http://www.filefactory.com/file/2x78i48ss479/Yr_11_12_Design_amp_Technology_11_DVD_zip</a>

Video

<https://youtu.be/rpfdjbjlo90>

#### **Science**

Yr 11+12 Science 7A –Disasters **Science (358) Y11+12 to Science (418) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip">http://www.filefactory.com/file/72cbg04po41z/Yr_11_12_Science_7A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/69lghi78j9xp/Yr_11_12_Science_7A_DVD_zip">http://www.filefactory.com/file/69lghi78j9xp/Yr_11_12_Science_7A_DVD_zip</a>

#### **Software Design**

Yr 11+12 Software Design 5C–Program Counter+DLL +Compilation **Software (344) Y11+12 to Software (344) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip">http://www.filefactory.com/file/40c35npbomr5/Yr_11_12_Software_Design_5C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip">http://www.filefactory.com/file/7estdz65tyv/Yr_11_12_Software_Design_5C_DVD_zip</a>

Video

<https://youtu.be/72CfwGKaY1s>

**Year 11+12 WEEK 12**

### **Mathematics**

Yr 11+12 Maths-10 –Parametric Equations+ Permutation+ Combinations **Maths (199) Yr11+12 to Maths (224) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip">http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip">http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip</a>

Video

<https://youtu.be/Mzfxj6lydeQ>

**Maths 11**

[https://youtu.be/4KFClr\\_MVyc](https://youtu.be/4KFClr_MVyc)

### **Chemistry**

Yr 11+12 Chemistry-8–Titration+ Esters

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/36hcofmkt1ox/Yr_11_12_Chemistry_8_DVD_zip</a>

Video

<https://youtu.be/79ZBL1h8CBA>

### **Design & Technology**

Yr 11+12 Design & Technology-12 –Communications **DesignTech (317) Y11+12 to Design Tech (353) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip">http://www.filefactory.com/file/5r9tkbo3wpd3/Yr_11_12_Design_amp_Technology_12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip">http://www.filefactory.com/file/5a0ig46nb5vh/Yr_11_12_Design_amp_Technology_12_DVD_zip</a>

Video

<https://youtu.be/drEiGJX0dsc>

## Science

Yr 11+12 Science-7B –Seismic Waves+ Bush Fires **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip">http://www.filefactory.com/file/1ro7lcm2ev9l/Yr_11_12_Science_7B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip">http://www.filefactory.com/file/4mi5rm03032f/Yr_11_12_Science_7B_DVD_zip</a>

## Software Design

Yr 11+12 Software Design-5D –Optimiser **Software (379) Y11+12 to Software (410) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip">http://www.filefactory.com/file/5itbbkwkyflf/Yr_11_12_Software_Design_5D_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip">http://www.filefactory.com/file/4agmfj3tfe8v/Yr_11_12_Software_Design_5D_DVD_zip</a>

Video

<https://youtu.be/lldV4rbjv30>

## Year 11+12 WEEK 13

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## Chemistry

Yr 11+12 Chemistry-8 -Titration+ Esters **Chemistry (374) Y11+12 to Chemistry (407) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/4htdi6foskqv/Yr_11_12_Chemistry_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip</a>

DVD Player	
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### Design & Technology

Yr 11+12 Design & Technology-13 –Computer Based Technologies **DesignTech (354) Y11+12 to Design Tech (392) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip">http://www.filefactory.com/file/387s4iyi46kl/Yr_11_12_Design_amp_Technology_13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip">http://www.filefactory.com/file/issguqha78n/Yr_11_12_Design_amp_Technology_13_DVD_zip</a>

Video

<https://youtu.be/lbZ3cwYPL9g>

<https://youtu.be/4z-CmJrepHk>

### Science

Yr 11+12 Science-8A –Atmosphere + Space Craft **Science (419) Y11+12 to Science (442) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip">http://www.filefactory.com/file/2ghok2l7sf59/Yr_11_12_Science_8A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip">http://www.filefactory.com/file/4x2muuhgmw53/Yr_11_12_Science_8A_DVD_zip</a>

### Software Design

Yr 11+12 Software Design-5E –Documentations of Software Solutions **Software (411) Y11+12 to Software (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip">http://www.filefactory.com/file/4zx501nscxf7/Yr_11_12_Software_Design_5E_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip">http://www.filefactory.com/file/6v65wgxqivbv/Yr_11_12_Software_Design_5E_DVD_zip</a>

Video

<https://youtu.be/VW4fk5sV4p4>

**Year 11+12 WEEK 14**

### Mathematics

Yr 11+12 Maths-12 –Factor Theorem + Remainder Theorem **Maths (225) Yr11+12 to Maths (240) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip">http://www.filefactory.com/file/136lrkgns6rx/Yr_11_12_Maths-12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip">http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip</a>

Video

<https://youtu.be/20u2Jx6xnbw>

## **Chemistry**

Yr 11+12 Chemistry-9A –The Work of Chemist **Chemistry (408) Y11+12 to Chemistry (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip">http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip</a>

Video

<https://youtu.be/eepO1GLhtns>

## **Design & Technology**

Yr 11+12 Design & Technology 14B Management **DesignTech (393) Y11+12 to Design Tech (433) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

## **Design & Technology 14A**

<https://youtu.be/tK545SK9Tao>

## **Science**

Yr 11+12 Science -8B–Space Technology **Science (443) Y11+12 to Science (473) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip">http://www.filefactory.com/file/4ccs42931yzh/Yr_11_12_Science_8B_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip">http://www.filefactory.com/file/5i6aglh7uxt/Yr_11_12_Science_8B_DVD_zip</a>
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### Software Design

Yr 11+12 Software Design-6A –Testing the software solution **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip">http://www.filefactory.com/file/5jo5sy4fboij/Yr_11_12_Software_Design_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip">http://www.filefactory.com/file/7dih42xf5geh/Yr_11_12_Software_Design_6A_DVD_zip</a>

Video

<https://youtu.be/JwyNceTj5JI>

### Year 11+12 WEEK 15

### Mathematics

Yr 11+12 Maths-13 –Graphing Polynomials + Integration **Maths (241) Yr11+12 to Maths (258) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip">http://www.filefactory.com/file/12lxg7gx0xpj/Yr11_12_Maths-13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip">http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip</a>

Video

<https://youtu.be/hU00Wdtm8H0>

### Chemistry

Yr 11+12 Chemistry 9A –The work of chemist **Chemistry (434) Y11+12 to Chemistry (444) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip">http://www.filefactory.com/file/7laadq7nl6cf/Yr_11_12_Chemistry_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

### Design & Technology

Yr 11+12 Design & Technology -14A-Managers+ Management Styles **DesignTech (434) Y11+12 to Design Tech (439) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip">http://www.filefactory.com/file/4bvdm6sa3ncx/Yr_11_12_Design_amp_Technology14A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

**Design & Technology 14B**

<https://youtu.be/j7DxOusOtfM>

**Science**

Yr 11+12 Science-8C –Optical Telescope **Science (474) Y11+12 to Science (516) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip">http://www.filefactory.com/file/2w2xz4cujpst/Yr_11_12_Science_8C_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip">http://www.filefactory.com/file/5w36sno04vxh/Yr_11_12_Science_8C_DVD_zip</a>

**Software Design**

Yr 11+12 Software Design-6B –Driver Module **Software (445) Y11+12 to Software (505) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip">http://www.filefactory.com/file/xdk1miyf7zn/Yr_11_12_Software_6B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip">http://www.filefactory.com/file/49wkhg6pwzqt/Yr_11_12_Software_6B_DVD_zip</a>

Video

<https://youtu.be/vu3bOR9KtrU>

**Year 11+12 WEEK 16**

**Mathematics**

Yr 11+12 Maths 14 Integration Approximation **Maths (259) Yr11+12 to Maths (268) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip">http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip">http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip</a>
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Video

<https://youtu.be/BxoPyYDoSHk>

### **Chemistry**

Yr 11+12 Chemistry 9B –Atomic Absorption+ Spectrograph **Chemistry (445) Y11+12 to Chemistry (458) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip">http://www.filefactory.com/file/ghvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>

Video

<https://youtu.be/z9efzQuNePg>

### **Design & Technology**

Yr 11+12 Design & Technology -15–Organizational Structure **DesignTech (440) Y11+12 to Design Tech (463) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip">http://www.filefactory.com/file/5y5b3wqyv4f1/Yr_11_12_Design_amp_Technology_15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip">http://www.filefactory.com/file/11fnlo873olx/Yr_11_12_Design_amp_Technology_15_DVD_zip</a>

Video

<https://youtu.be/xpbDhFJrLVo>

### **Science**

Yr 11+12 Science-6A –Central peripheral nervous system

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip">http://www.filefactory.com/file/1fd7tm0ykurx/Yr_11_12_Science_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip">http://www.filefactory.com/file/7koilryf62tn/Yr_11_12_Science_6A_DVD_zip</a>

Video

### **Science 6B**

<https://youtu.be/WzxCKpDquBI>

Science 6C

<https://youtu.be/raUa04nYcho>

Science 7A

<https://youtu.be/vhBQ7GliPSw>

Science 7B

[https://youtu.be/KjO\\_SlCRIsQ](https://youtu.be/KjO_SlCRIsQ)

Science 8A

<https://youtu.be/Guv-3nThBiM>

Science 8B

[https://youtu.be/8oMPx36Q\\_Pc](https://youtu.be/8oMPx36Q_Pc)

Software Design

Yr 11+12 Software Design-7 –Code Modification **Software (506) Y11+12 to Software (530) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip">http://www.filefactory.com/file/7fklqij5c0z3/Yr_11_12_Software_Design_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip">http://www.filefactory.com/file/5w9d4378mcct/Yr_11_12_Software_Design_7_DVD_zip</a>

Video

<https://youtu.be/dKbdvz-vN8s>

**Year 11+12 WEEK 17**

**Mathematics**

Yr 11+12 Maths -15–Graphing Inverse Function **Maths (269) Yr11+12 to Maths (290) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip">http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip">http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip</a>

Video

<https://youtu.be/RXmABGXM3To>

### **Chemistry**

Yr 11+12 Chemistry -10A-Isomers+ Ozone + Water Analysis **Chemistry (459) Y11+12 to Chemistry (506) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/252l7enlc23j/Yr_11_12_Chemistry_10A_PPT_zip">http://www.filefactory.com/file/252l7enlc23j/Yr_11_12_Chemistry_10A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17ocelpd5eol/Yr_11_12_Chemistry_10A_DVD_zip">http://www.filefactory.com/file/17ocelpd5eol/Yr_11_12_Chemistry_10A_DVD_zip</a>

Video

<https://youtu.be/9lCeJpMExqU>

### **Design & Technology**

Yr 11+12 Design & Technology-16 –Safety Issues **DesignTech (466) Y11+12 to Design Tech (488) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5vhtwrszqhb3/Yr_11_12_Design_amp_Technology_16_PPT_zip">http://www.filefactory.com/file/5vhtwrszqhb3/Yr_11_12_Design_amp_Technology_16_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/14skzslec8a5/Yr_11_12_Design_amp_Technology_16_DVD_zip">http://www.filefactory.com/file/14skzslec8a5/Yr_11_12_Design_amp_Technology_16_DVD_zip</a>

Video

<https://youtu.be/AuYSNtmo-IM>

### **Year 11+12 WEEK 18**

### **Mathematics**

Yr 11+12 Maths-16 –Trigo Evaluation **Maths (291) Yr11+12 to Maths (307) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip">http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip">http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip</a>

Video



<https://youtu.be/LGLHqnoVeS8>

## **Chemistry**

Yr 11+12 Chemistry-10B –Heavy Metal Pollution of Water **Chemistry (507) Y11+12 to Chemistry (541) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3ybo7fsparon/Yr_11_12_Chemistry_10B_PPT_zip">http://www.filefactory.com/file/3ybo7fsparon/Yr_11_12_Chemistry_10B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2dbgudauuujh/Yr_11_12_Chemistry_10B_DVD_zip">http://www.filefactory.com/file/2dbgudauuujh/Yr_11_12_Chemistry_10B_DVD_zip</a>

Video

<https://youtu.be/lhJEjJpz11s>

## **Design & Technology**

Yr 11+12 Design & Technology 17- Evaluation **DesignTech (489) Y11+12 to Design Tech (517) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/yfisrp2mvp9/Yr_11_12_Design_amp_Technology_17_PPT_zip">http://www.filefactory.com/file/yfisrp2mvp9/Yr_11_12_Design_amp_Technology_17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wttf2utmwuf/Yr_11_12_Design_amp_Technology_17_DVD_zip">http://www.filefactory.com/file/6wttf2utmwuf/Yr_11_12_Design_amp_Technology_17_DVD_zip</a>

Video

<https://youtu.be/98hxD-tn-Xs>

## **Software Design**

Yr 11+12 Software Design -8A–Defining problem and solution **Software (531) Y11+12 to Software (566) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/ajj1hxfw091/Yr_11_12_Software_Design_8_A_PPT_zip">http://www.filefactory.com/file/ajj1hxfw091/Yr_11_12_Software_Design_8_A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rpqkmlnk6h3/Yr_11_12_Software_Design_8_A_DVD_zip">http://www.filefactory.com/file/1rpqkmlnk6h3/Yr_11_12_Software_Design_8_A_DVD_zip</a>

Video

[https://youtu.be/tvv3Qp\\_2HQ8](https://youtu.be/tvv3Qp_2HQ8)

## **Year 11+12 WEEK 19**

## **Mathematics**

Yr 11+12 Maths-17 –Integration + Application of Calculus **Maths (308) Yr11+12 to Maths (328) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip">http://www.filefactory.com/file/1feczcppc8rp/Yr_11_12_Maths-17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip">http://www.filefactory.com/file/66zpfudn8wxp/Yr_11_12_Maths-17_DVD_zip</a>

Video

<https://youtu.be/hD6b2SBJ0Fs>

**Chemistry**

Yr 11+12 Chemistry-6A –Natural & manufactured acid

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip">http://www.filefactory.com/file/s9awfdx5zgf/Yr11_12_Chemistry_6A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip">http://www.filefactory.com/file/7iid164ww3wp/Yr11_12_Chemistry_6A_DVD_zip</a>

Video

<https://youtu.be/Fz6PeH8yokI>

**Design & Technology**

Yr 11+12 Design & Technology-14B –Managers and management style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/87kbzfu8rfp/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip">http://www.filefactory.com/file/65lmctlgowad/Yr_11_12_Design_amp_Technology_14A_DVD_zip</a>

Video

<https://youtu.be/9qgLkRtvWTY>

**Software Design**

Yr 11+12 Software Design -8–Selection of software environment / Document design **Software (567) Y11+12 to Software (587) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip">http://www.filefactory.com/file/6mwk40xbe5wh/Yr_11_12_Software_Design_8_PPT_zip</a>
Link for JPEG+MP3 to view with portable	<a href="http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip">http://www.filefactory.com/file/284oyustjbrp/Yr_11_12_Software_Design_8_B_DVD_zip</a>

DVD Player

Video

: <https://youtu.be/CrFG2YFFnuQ>

### **Year 11+12 WEEK 20**

#### **Mathematics**

Yr 11+12 Maths-18 –Application of Calculus **Maths (329) Yr11+12 to Maths (330) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip">http://www.filefactory.com/file/14knjfbvlvz8n/Yr_11_12_Maths-18_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip">http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip</a>

Video

<https://youtu.be/I5M3dwR-c-E>

#### **Design & Technology**

Yr 11+12 Design & Technology-18A –Innovation **DesignTech (518) Y11+12 to Design Tech (524) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip">http://www.filefactory.com/file/4iffbwlx7pp/Yr_11_12_Design_amp_Technology_18A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip">http://www.filefactory.com/file/g3esevp48tt/Yr_11_12_Design_amp_Technology_18A_DVD_zip</a>

Video

<https://youtu.be/PtzEaqUQoEQ>

### **Year 11+12 WEEK 21**

#### **Mathematics**

Yr 11+12 Maths-19 –Simple Harmonic Oscillation **Maths (331) Yr11+12 to Maths (344) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip">http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip">http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip</a>

Video

[https://youtu.be/\\_zb8d71E-QU](https://youtu.be/_zb8d71E-QU)

<https://youtu.be/OQCjs7CsMy8>

### **Design & Technology**

Yr 11+12 Design & Technology 18B Elements of innovation **DesignTech (525) Y11+12 to Design Tech (568) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip">http://www.filefactory.com/file/31qwx5hqxg3b/Yr_11_12_Design_amp_Technology_18B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip">http://www.filefactory.com/file/55flvrehiy9p/Yr_11_12_Design_amp_Technology_18B_DVD_zip</a>

Video

<https://youtu.be/mqluRwTe7yA>

### **Software Design**

Yr 11+12 Software Design-9A –Generation of programming languages **Software (588) Y11+12 to Software (593) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip">http://www.filefactory.com/file/660f3qzhf7cj/Yr_11_12_Software_Design_9A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip">http://www.filefactory.com/file/23ia1egfwcq7/Yr_11_12_Software_Design_9A_DVD_zip</a>

Video

<https://youtu.be/li0qJAO-CfA>

### **Year 11+12 WEEK 22**

### **Mathematics**

Yr 11+12 Maths 20 –Projectile Motion **Maths (344) Yr11+12 to Maths (360) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip">http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip">http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip</a>

Video

<https://youtu.be/ZoFwF8xlxHA>

### **Design & Technology**

Yr 11+12 Design & Technology -14B-Manager + Management Style

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip">http://www.filefactory.com/file/1epo015zxn5f/Yr_11_12_Design_amp_Technology_14B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip">http://www.filefactory.com/file/4ja1xmidsbcrb/Yr_11_12_Design_amp_Technology_14B_DVD_zip</a>

### **Software Design**

Yr 11+12 Software Design 9B History of programming languages **Software (594) Y11+12 to Software (602) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip">http://www.filefactory.com/file/6ejt9gs5t5wt/Yr_11_12_Software_Design_9B_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip">http://www.filefactory.com/file/4uirof432wzr/Yr_11_12_Software_Design_9B_DVD_zip</a>

Video

<https://youtu.be/BMmEjoHh3fM>

### **Year 11+12 WEEK 23**

### **Mathematics**

Yr 11+12 Maths 21 –Binomial Theorem **Maths (361) Yr11+12 to Maths (370) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip">http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip">http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip</a>

Video

<https://youtu.be/BTGRHmEG5d0>

### **Design & Technology**

Yr 11+12 Design & Technology-19 –Emerging Technologies **DesignTech (569) Y11+12 to Design Tech (591) Y11+12**

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip">http://www.filefactory.com/file/3sj0wrre1c4j/Yr_11_12_Design_amp_Technology_19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip">http://www.filefactory.com/file/1d3ax76mlffp/Yr_11_12_Design_amp_Technology_19_DVD_zip</a>

Video

<https://youtu.be/9k3wlaipqSU>

### Software Design

Yr 11+12 Software Design -10A-Representation of Computer Data **Software (603) Y11+12 to Software (626) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip">http://www.filefactory.com/file/4c5bf6m8uh6f/n/Yr_11+12_Software_Design_10A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/60wacfsz8mcy/n/Yr_11+12_Software_Design_10A_DVD.zip">http://www.filefactory.com/file/60wacfsz8mcy/n/Yr_11+12_Software_Design_10A_DVD.zip</a>

### Year 11+12 WEEK 24

### Mathematics

Yr 11+12 Maths-22 -Probability+ Binomial Distribution **Maths (371) Yr11+12 to Maths (387) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4y86h0clohzy/Yr_11_12_Maths-22_PPT_zip">http://www.filefactory.com/file/4y86h0clohzy/Yr_11_12_Maths-22_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip">http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip</a>

Video

<https://youtu.be/Lw75Cy0fzHc>

### Design & Technology

Yr 11+12 Design & Technology 20A Impact of design activities on individual society & environment **DesignTech (600) Y11+12 to Design Tech (610) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip">http://www.filefactory.com/file/uqhntvm31ch/Yr_11_12_Design_amp_Technology_20A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip">http://www.filefactory.com/file/jkqgjibpf01/Yr_11_12_Design_amp_Technology_20A_DVD_zip</a>

Video

<https://youtu.be/RbxiFlcA3Co>

### Software Design

Yr 11+12 Software Design 10B –Logic Gates **Software (627) Y11+12 to Software (643) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip">http://www.filefactory.com/file/3mcp51i5944n/n/Software_Design_10B-Yr_11+12_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip">http://www.filefactory.com/file/53qryli3a6vr/Yr%2011%2B12%20Software%20Design%2010B%20DVD.zip</a>

### Year 11+12 WEEK 25

### Mathematics

Yr 11+12 Maths 23–Changing Recurring Decimals in to Fractions **Maths (388) Yr11+12 to Maths (393) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip">http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip">http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip</a>

Video

<https://youtu.be/F4jP4NVEiW0>

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Yr 11+12 Maths 24 –Simplifying Algebraic Expression **Maths (394) Yr11+12 to Maths (415) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip">http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip">http://www.filefactory.com/file/5wo1f7od9jii/Yr_11_12_Maths-24_DVD_zip</a>

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<https://youtu.be/fvqNKi-dSyU>

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## Design & Technology

Yr 11+12 Design & Technology 20B –Water Pollution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip">http://www.filefactory.com/file/39g4tunul0kl/n/Yr_11+12_Design_&amp;Technology_20B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip">http://www.filefactory.com/file/3n07czpw9s6v/n/Yr_11+12_Design_&amp;Technology_20B_DVD-.zip</a>

## Year 11+12 WEEK 26

### Mathematics

Yr 11+12 Maths 25 Solving simultaneous equations **Maths (416) Yr11+12 to Maths (434) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip">http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip">http://www.filefactory.com/file/a7cugmrmrxf/Yr_11_12_Maths-25_DVD_zip</a>

Video

<https://youtu.be/bLRBZcM-zsk>

## Design & Technology

Yr 11+12 Design & Technology 21A–Innovation Case Studies **DesignTech (612) Y11+12 to Design Tech (630) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip">http://www.filefactory.com/file/4z1rv9094we5/n/Yr_11+12_Design_&amp;Technology_21A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip">http://www.filefactory.com/file/6pjkgeddlop/n/Yr_11+12_Design_&amp;Technology_21A_DVD.zip</a>

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## Year 11+12 WEEK 27

### Mathematics

Yr 11+12 Maths 26 –Percentage , discount **Maths (435) Yr11+12 to Maths (438) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip">http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip">http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip</a>
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Video

<https://youtu.be/9DzrWJHKLBO>

### **Design & Technology**

Yr 11+12 Design & Technology 21B Innovation Case Studies- Designer Aspect

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip">http://www.filefactory.com/file/3bh2uw1rzu49/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip">http://www.filefactory.com/file/298r39a9v5c1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2021B%20DVD.zip</a>

### **Year 11+12 WEEK 28**

### **Mathematics**

Yr 11+12 Maths 27 –Geometry problems solving **Maths (439) Yr11+12 to Maths (461) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip">http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip">http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip</a>

Video

<https://youtu.be/jLHR9IP5sTQ>

### **Design & Technology**

Yr 11+12 Design & Technology 22A–Major Design Project **DesignTech (611) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip">http://www.filefactory.com/file/4ndif2bw2ht/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20PPT.zip</a>
Link for JPEG+MP3 to	<a href="http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip">http://www.filefactory.com/file/72q8hgh2n9x1/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022A%20DVD.zip</a>

view with portable DVD Player	
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## **Year 11+12 WEEK 29**

### **Mathematics**

Yr 11+12 Maths 28- Trigo function values **Maths (462) Yr11+12 to Maths (485) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip">http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip">http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip</a>

Video

<https://youtu.be/5iMZP3dAHs8>

### **Design & Technology**

Yr 11+12 Design & Technology 22B-Major Design Project Development/ Evaluation **DesignTech (631) Y11+12 to Design Tech (635) Y11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip">http://www.filefactory.com/file/aqvihlnau3h/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip">http://www.filefactory.com/file/3zbwoyululqt/Yr%2011%2B12%20Design%20%26amp%3B%20Technology%2022B%20DVD.zip</a>

## **Year 11+12 WEEK 30**

### **Mathematics**

Yr 11+12 Maths 29-Trigo ratio values **Maths (486) Yr11+12 to Maths (498) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip">http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip">http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip</a>

Video

<https://youtu.be/ABEJoLGBntk>

### **Mathematics**

Yr 11+12 Maths 30–Trigo problems, angle of elevation **Maths (499) Yr11+12 to Maths (509) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip">http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip">http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip</a>

Video

<https://youtu.be/UU2OO8iW2nk>

### **Mathematics**

Yr 11+12 Maths31 – XY Line gradient **Maths (510) Yr11+12 to Maths (527) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip">http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip">http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip</a>

Video

<https://youtu.be/lwoTQF7lhSI>

### **Mathematics**

Yr 11+12 Maths 32 - Mid points between points **Maths (528) Yr11+12 to Maths (551) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip">http://www.filefactory.com/file/io9ru2073ab/Yr_11_12_Maths-32_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip">http://www.filefactory.com/file/6yotutfflmf/Yr_11_12_Maths-32_DVD_zip</a>

Video

[https://youtu.be/FTr\\_FM61jwE](https://youtu.be/FTr_FM61jwE)

### **Year 11+12 WEEK 31**

## **Mathematics**

Yr 11+12 Maths 33 Angle of inclination / Graphs of functions **Maths (552) Yr11+12 to Maths (571) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip">http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip">http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip</a>

Video

<https://youtu.be/uZxfV88QXlg>

## **Mathematics**

Yr 11+12 Maths 34 Locus & Parabola **Maths (572) Yr11+12 to Maths (591) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip">http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip">http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip</a>

Video

<https://youtu.be/nggwEsSMNIM>

## **Mathematics**

Yr 11+12 Maths 35 Series **Maths (592) Yr11+12 to Maths (609) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip">http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip">http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip</a>

Video

[https://youtu.be/sj6NW\\_p-N-w](https://youtu.be/sj6NW_p-N-w)

## **Mathematics**

Yr 11+12 Maths 36 Tangent & Derivatives of Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip">http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip">http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip</a>
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## **Year 11+12 WEEK 32**

### **Mathematics**

Yr 11+12 Maths 37 Application of Geometrical Properties

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip">http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip">http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 38 –Co-ordinate Methods in Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip">http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip">http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 39 Plotting graph/ Maxima & Minima

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip">http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip">http://www.filefactory.com/file/4zz8aah5h7ti/n/Maths_(39)Yr11+12_DVD.zip</a>

### **Mathematics**

Yr 11+12 Maths 40 Definite Integral

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip">http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip">http://www.filefactory.com/file/3fw00doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip</a>

### **Year 11+12 WEEK 33**

#### **Mathematics**

Yr 11+12 Maths 41 Exponential & Logarithmic Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip">http://www.filefactory.com/file/34u19woalnkj/Yr%2011%2B12%20Maths%2041%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip">http://www.filefactory.com/file/27a9ajkzn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 42 Trigonometric Functions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip">http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip">http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip</a>

#### **Mathematics**

Yr 11+12 Maths 43 Application of calculus to physical world

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip">http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip">http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip</a>

## Mathematics

Yr 11+12 Maths 44 Probability

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip">http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip">http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip</a>

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## Mathematics

Yr 11+12 Maths 45 Application of series

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip">http://www.filefactory.com/file/numpzwkt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip">http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip</a>

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## **EXERCISES**

[www.highlightcomputer.com/Y9101112Exercises.pdf](http://www.highlightcomputer.com/Y9101112Exercises.pdf)

## YEAR 7 TO 12 STUDY SUPPORT PROGRAM

Pre-vocational Program for Engineering, Information Technology & Business Management

- Pre-vocational Program for the students who have not passed Year 10 in Myanmar to attend the Degree Programs of St Clements Technological University

### Pre-vocational Program & Vocational & Higher education Studies Course Structure

[http://www.filefactory.com/file/2katcazit0ct/n/St\\_Clements\\_Technological\\_University\\_Scholarship\\_E\\_pdf](http://www.filefactory.com/file/2katcazit0ct/n/St_Clements_Technological_University_Scholarship_E_pdf)

#### (1) Links for Powerpoints & Computer

The folders in the following links contain the Power-points files that can be played by the computer.

[http://www.filefactory.com/file/30p22rk6u1zz/n/Prevocational\\_Course\\_for\\_Engineering\\_IT\\_htm](http://www.filefactory.com/file/30p22rk6u1zz/n/Prevocational_Course_for_Engineering_IT_htm)

#### (2) Links for DVD Players

<http://www.highlightcomputergroup4.zoomshare.com/files/school.htm>

The folders in the following links contain the JPG & MP3 files that can be played by the following Portable DVD Player.

#### Portable DVD Player

[http://www.filefactory.com/file/fzv47mhtg73/n/Portable\\_DVD\\_Player\\_pdf](http://www.filefactory.com/file/fzv47mhtg73/n/Portable_DVD_Player_pdf)

#### CGVE 401 Year 11+12 Maths V1

[http://www.filefactory.com/file/4y9iouqnve49/n/CGVE\\_401\\_Year\\_11\\_12\\_Maths\\_V1\\_zip](http://www.filefactory.com/file/4y9iouqnve49/n/CGVE_401_Year_11_12_Maths_V1_zip)

#### CGVE 402 Year 11+12 Physics 2 V1

[http://www.filefactory.com/file/li9u47tmbaz/n/CGVE\\_402\\_Year\\_11\\_12\\_Physics\\_2\\_V1\\_zip](http://www.filefactory.com/file/li9u47tmbaz/n/CGVE_402_Year_11_12_Physics_2_V1_zip)



## CGVE 403 Year 11+12 Software Design V1

[http://www.filefactory.com/file/4lh1613yoqu9/n/CGVE\\_403\\_Year\\_11\\_12\\_Software\\_Design\\_V1.zip](http://www.filefactory.com/file/4lh1613yoqu9/n/CGVE_403_Year_11_12_Software_Design_V1.zip)

## CGVE 404 Year 11+12 Science V1

[http://www.filefactory.com/file/2h5el5pkwve5/n/CGVE\\_404\\_Year\\_11\\_12\\_Science\\_V1.zip](http://www.filefactory.com/file/2h5el5pkwve5/n/CGVE_404_Year_11_12_Science_V1.zip)

## CGVE 405 Year 11+12 Design & Technology V1

[http://www.filefactory.com/file/i7gnk4lfoh/n/CGVE\\_405\\_Year\\_11\\_12\\_Design\\_amp\\_Technology\\_V1.zip](http://www.filefactory.com/file/i7gnk4lfoh/n/CGVE_405_Year_11_12_Design_amp_Technology_V1.zip)

## CGVE 406 Year 11+12 Chemistry V1

[http://www.filefactory.com/file/7b1obo03kiq1/n/CGVE\\_406\\_Year\\_11\\_12\\_Chemistry\\_V1.zip](http://www.filefactory.com/file/7b1obo03kiq1/n/CGVE_406_Year_11_12_Chemistry_V1.zip)

## CGVE 410 Industrial Technology V1

[http://www.filefactory.com/file/1zh9pkn4vx67/n/CGVE\\_410\\_Industrial\\_Technology\\_V1\\_Part\\_1.zip](http://www.filefactory.com/file/1zh9pkn4vx67/n/CGVE_410_Industrial_Technology_V1_Part_1.zip)

[http://www.filefactory.com/file/2idd8993qq6x/n/CGVE\\_410\\_Industrial\\_Technology\\_V1\\_Part\\_2.zip](http://www.filefactory.com/file/2idd8993qq6x/n/CGVE_410_Industrial_Technology_V1_Part_2.zip)

## School Studies Support Resources for Myanmar Buddhist Monastery Schools

### (Free access for general public)

The following links contain Year K to 6 & Year 7 to 12 curriculum resources& Study materials in Australian Education Standard.

Study support lessons are prepared in the following aspects

- (1) English & Myanmar tutoring lessons are prepared in power points & videos.
- (2) The lessons are being uploaded as well as saved in USB, CD, [DVD](#) and
- (3) Donate them together with books, CD player, DVD players, TV monitor ,computers and electrical power supplies to Myanmar Buddhist Monastery Schools in needs.

### **Certificate in General & Vocational Education Level (3)**

#### **CGVE 301+302+303**

CGVE301- Maths  
CGVE302-Science  
CGVE303 Information Processing

Year 9+10 Maths+ Science+ Information Processing

#### **Textbook**

[http://www.filefactory.com/file/3e4c2olv9hzj/n/Yr\\_9\\_10\\_Maths\\_Science\\_Information\\_Processing\\_pdf](http://www.filefactory.com/file/3e4c2olv9hzj/n/Yr_9_10_Maths_Science_Information_Processing_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/6wd5iqersoiz/n/Inf\\_Process\\_zip](http://www.filefactory.com/file/6wd5iqersoiz/n/Inf_Process_zip)

### **Certificate in General & Vocational Education Level (4)**

CGVE 406 Year 11+12 HSC Chemistry

#### **Text book**

[http://www.filefactory.com/file/22qy5jtmyikp/n/Yr\\_11\\_12\\_HSC\\_Chemistry\\_pdf](http://www.filefactory.com/file/22qy5jtmyikp/n/Yr_11_12_HSC_Chemistry_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/1w0mfev15p2x/n/Chemistry\\_zip](http://www.filefactory.com/file/1w0mfev15p2x/n/Chemistry_zip)

### **Certificate in General & Vocational Education Level (4)**

CGVE 401 Year 11+12 HSC Maths

[http://www.filefactory.com/file/3cafch1pnt77/n/Yr\\_11\\_12\\_HSC\\_Maths\\_pdf](http://www.filefactory.com/file/3cafch1pnt77/n/Yr_11_12_HSC_Maths_pdf)

#### **Curriculum**

[http://www.filefactory.com/file/3lpp9lk2i9d/n/Maths\\_zip](http://www.filefactory.com/file/3lpp9lk2i9d/n/Maths_zip)

#### **Certificate in General & Vocational Education Level (4)**

CGVE 402+404+405

Year 11+12 HSC Physics+ Science + Design & Technology

#### **Text book**

[http://www.filefactory.com/file/19jkrxngkqz/n/Yr\\_11\\_12\\_HSC\\_Physics\\_Science\\_Design\\_Technology\\_pdf](http://www.filefactory.com/file/19jkrxngkqz/n/Yr_11_12_HSC_Physics_Science_Design_Technology_pdf)

CGVE402-Physics

#### **Curriculum**

[http://www.filefactory.com/file/5l379ts48ocv/n/Physics\\_zip](http://www.filefactory.com/file/5l379ts48ocv/n/Physics_zip)

CGVE404 Science

#### **Curriculum**

[http://www.filefactory.com/file/bteirsv3sy3/n/Science\\_zip](http://www.filefactory.com/file/bteirsv3sy3/n/Science_zip)

CGVE405 Design & Technology

#### **Curriculum**

[http://www.filefactory.com/file/2o7sfnapua25/n/DST\\_zip](http://www.filefactory.com/file/2o7sfnapua25/n/DST_zip)

#### **Certificate in General & Vocational Education Level (4)**

CGVE 407+408+403

Year 11+12 HSC Statistics+ Introductory Physics+Software Design

CGVE407 Statistics

CGVE408 Introductory Physics

CGVE403 Software Design

### **Textbook**

- [http://www.filefactory.com/file/41tsefd61atv/n/Yr\\_11\\_12\\_HSC\\_Statistics\\_2Unit\\_Physics\\_Software\\_Design\\_pdf](http://www.filefactory.com/file/41tsefd61atv/n/Yr_11_12_HSC_Statistics_2Unit_Physics_Software_Design_pdf)

### **Curriculum**

- [http://www.filefactory.com/file/63mupkbbkhg1/n/Software\\_Design\\_dev\\_zip](http://www.filefactory.com/file/63mupkbbkhg1/n/Software_Design_dev_zip)

### **Certificate in General & Vocational Education Level (4)**

- CGVE 409 Construction

### **Curriculum**

- [http://www.filefactory.com/file/1eid0wv7slvp/n/Construction\\_zip](http://www.filefactory.com/file/1eid0wv7slvp/n/Construction_zip)

CGVE 410 Industrial Technology

### **Curriculum**

- [http://www.filefactory.com/file/1m8x28kcg0xb/n/Ind\\_Tech\\_zip](http://www.filefactory.com/file/1m8x28kcg0xb/n/Ind_Tech_zip)

CGVE 411 Information Technology

CGVE 412 Information Process

### **Curriculum**

- [http://www.filefactory.com/file/owuf6zwnw57/n/IT\\_zip](http://www.filefactory.com/file/owuf6zwnw57/n/IT_zip)

CGVE 413 Metal & Engineering

### **Curriculum**

- [http://www.filefactory.com/file/1j1x3g7qwwwz/n/Metal\\_amp\\_Engg\\_zip](http://www.filefactory.com/file/1j1x3g7qwwwz/n/Metal_amp_Engg_zip)

[http://www.filefactory.com/file/7b2s5vinkaor/n/Engg\\_Study\\_zip](http://www.filefactory.com/file/7b2s5vinkaor/n/Engg_Study_zip)

### **Certificate in General & Vocational Education Level ( 3 & 4) Vocational Subjects**

**CGVE 420 Vocational- Business**

**(Curriculum)**

[http://www.filefactory.com/file/33b2dhe09ewx/n/Yr\\_9\\_to\\_12\\_Vocational\\_Business\\_zip](http://www.filefactory.com/file/33b2dhe09ewx/n/Yr_9_to_12_Vocational_Business_zip)

**CGVE 430 Vocational-Agri Business**

**(Curriculum)**

[http://www.filefactory.com/file/3wjjw8322rbx/n/Yr\\_9\\_to\\_12\\_Vocational\\_Agri\\_Business\\_zip](http://www.filefactory.com/file/3wjjw8322rbx/n/Yr_9_to_12_Vocational_Agri_Business_zip)

**CGVE 440 Vocational-Arts**

**(Curriculum)**

[http://www.filefactory.com/file/4r7pvx63gmzh/n/Yr\\_9\\_to\\_12\\_Vocational-Arts\\_zip](http://www.filefactory.com/file/4r7pvx63gmzh/n/Yr_9_to_12_Vocational-Arts_zip)

**CGVE 450 Vocational-Engineering & Technology**

**(Curriculum)**

[http://www.filefactory.com/file/1i7teaxpew0n/n/Ind\\_Tech\\_zip](http://www.filefactory.com/file/1i7teaxpew0n/n/Ind_Tech_zip)

**Certificate in General & Vocational Education Level ( 1 ) Year 7 & 8**

**CGVE 101 Citizen & Society**

**Curriculum**

[http://www.filefactory.com/file/2p6suzph8wzx/n/Citizen\\_Society\\_zip](http://www.filefactory.com/file/2p6suzph8wzx/n/Citizen_Society_zip)

**CGVE 102 English**

**Curriculum**

[http://www.filefactory.com/file/3iifpbdqoenb/n/English\\_zip](http://www.filefactory.com/file/3iifpbdqoenb/n/English_zip)

- **CGVE 103 Mathematics**

- **Curriculum**

[http://www.filefactory.com/file/3vp8c7q1ckzv/n/Mathematics\\_zip](http://www.filefactory.com/file/3vp8c7q1ckzv/n/Mathematics_zip)

- **CGVE 104 Science**

- **Curriculum**

[http://www.filefactory.com/file/4z5dn3490v2h/n/Science\\_zip](http://www.filefactory.com/file/4z5dn3490v2h/n/Science_zip)

- **CGVE 105 Physical Education**

- **Curriculum**

[http://www.filefactory.com/file/6dzmpik399qp/n/PHDHPE\\_zip](http://www.filefactory.com/file/6dzmpik399qp/n/PHDHPE_zip)

- **CGVE 106 Arts**

- **Curriculum**

<http://www.filefactory.com/file/47362h0h9jx9/Arts.zip>

- **Certificate in General & Vocational Education Level ( 2 ) Year 9**

- **CGVE 201 Physical Education**

- **Curriculum**

[http://www.filefactory.com/file/1f54zkzpgla9/n/PHDHPE\\_zip](http://www.filefactory.com/file/1f54zkzpgla9/n/PHDHPE_zip)

- **CGVE 202 Physics**

### **Curriculum**

[http://www.filefactory.com/file/3fpe8kila2nr/n/Physics\\_zip](http://www.filefactory.com/file/3fpe8kila2nr/n/Physics_zip)

### **CGVE 203 Mathematics**

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### **Curriculum**

<http://www.filefactory.com/file/1s2n9ye0z97t/Mathematics.zip>

### **CGVE 204 Chemistry**

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### **Curriculum**

[http://www.filefactory.com/file/3r74jz8oh5en/n/Chemistry\\_zip](http://www.filefactory.com/file/3r74jz8oh5en/n/Chemistry_zip)

### **CGVE 205 Technology**

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### **Curriculum**

[http://www.filefactory.com/file/62ms3x30h8aj/n/Technology\\_zip](http://www.filefactory.com/file/62ms3x30h8aj/n/Technology_zip)

### **CGVE 206 Biology**

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### **Curriculum**

[http://www.filefactory.com/file/6chjfh07tfzj/n/Biology\\_zip](http://www.filefactory.com/file/6chjfh07tfzj/n/Biology_zip)

### **CGVE 207 English**

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### **Curriculum**

[http://www.filefactory.com/file/74qa5f0wvp7j/n/English\\_zip](http://www.filefactory.com/file/74qa5f0wvp7j/n/English_zip)

**CGVE 208 Design& Technology**

**Curriculum**

[http://www.filefactory.com/file/5l38j9dpswr1/n/DST\\_zip](http://www.filefactory.com/file/5l38j9dpswr1/n/DST_zip)



# Year 9 +10 Lessons

## WRITTEN NOTES

### Mathematics

[www.iqytechnicalcollege.com/Yr910Maths.zip](http://www.iqytechnicalcollege.com/Yr910Maths.zip)

### Physics

[www.iqytechnicalcollege.com/Y910Physics1.zip](http://www.iqytechnicalcollege.com/Y910Physics1.zip)

[www.iqytechnicalcollege.com/Y910Physics2.zip](http://www.iqytechnicalcollege.com/Y910Physics2.zip)

[www.iqytechnicalcollege.com/Y910Physics3.zip](http://www.iqytechnicalcollege.com/Y910Physics3.zip)

[www.iqytechnicalcollege.com/Y910Physics4.zip](http://www.iqytechnicalcollege.com/Y910Physics4.zip)

## Chemistry & Science

[www.iqytechnicalcollege.com/Y910Science.zip](http://www.iqytechnicalcollege.com/Y910Science.zip)

## Information Processing

[www.iqytechnicalcollege.com/Y910InformationProcessing.zip](http://www.iqytechnicalcollege.com/Y910InformationProcessing.zip)

## VIDEOS

[Year 9+10 Information Processing](#)

[Year 9+10 Science & Chemistry](#)

[Year 9+10 Mathematics](#)

[Year 9+10 Physics](#)

## Year 9+10 Information Processing

- Yr 9+10 Information Processing 1- Information Technology

Link for power-  
points to view

<http://www.filefactory.com/file/msq880fzekp/Yr%209%2B10%20Information%20Processing%201%20PPT.zip>

with computer	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/ubzlozv2d6n/Yr%209%2B10%20Information%20Processing%201%20DVD.zip">http://www.filefactory.com/file/ubzlozv2d6n/Yr%209%2B10%20Information%20Processing%201%20DVD.zip</a>

## **Video**

<https://youtu.be/Qe7BnqojcJY>

Yr 9+10 Information Processing 2A- Data Collection

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18g1u9quji5/Yr%209%2B10%20Information%20Processing%202A%20PPT.zip">http://www.filefactory.com/file/18g1u9quji5/Yr%209%2B10%20Information%20Processing%202A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3a97icdip7n1/Yr%209%2B10%20Information%20Processing%202A%20DVD.zip">http://www.filefactory.com/file/3a97icdip7n1/Yr%209%2B10%20Information%20Processing%202A%20DVD.zip</a>

## **Video**

<https://youtu.be/iPrZflrf3Ms>

Yr 9+10 Information Processing 2B- Data Processing Equipment

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Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5584ibgtmtjz/Yr%209%2B10%20Information%20Processing%202B%20PPT.zip">http://www.filefactory.com/file/5584ibgtmtjz/Yr%209%2B10%20Information%20Processing%202B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7aaxthxnjl9/Yr%209%2B10%20Information%20Processing%202B%20DVD.zip">http://www.filefactory.com/file/7aaxthxnjl9/Yr%209%2B10%20Information%20Processing%202B%20DVD.zip</a>

## **Video**

<https://youtu.be/8INosuw7HI8>

Yr 9+10 Information Processing 2C- Data Communication

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/iyilvpx0s5d/Yr%209%2B10%20Information%20Processing%202C%20PPT.zip">http://www.filefactory.com/file/iyilvpx0s5d/Yr%209%2B10%20Information%20Processing%202C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5romb91jqp2z/Yr%209%2B10%20Information%20Processing%202C%20DVD.zip">http://www.filefactory.com/file/5romb91jqp2z/Yr%209%2B10%20Information%20Processing%202C%20DVD.zip</a>

## **Video**

<https://youtu.be/230-h0g4xKg>

## Yr 9+10 Information Processing 3A-Problem Solving & System Development Design Planning

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4atl9n2xg2yn/Yr%209%2B10%20Information%20Processing%203A%20PPT.zip">http://www.filefactory.com/file/4atl9n2xg2yn/Yr%209%2B10%20Information%20Processing%203A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/huede6hquil/Yr%209%2B10%20Information%20Processing%203A%20DVD.zip">http://www.filefactory.com/file/huede6hquil/Yr%209%2B10%20Information%20Processing%203A%20DVD.zip</a>

### **Video**

<https://youtu.be/nLLbN1O1IQg>

## Yr 9+10 Information Processing 3B-Designing Solution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1hsmognepv4v/Yr%209%2B10%20Information%20Processing%203B%20PPT.zip">http://www.filefactory.com/file/1hsmognepv4v/Yr%209%2B10%20Information%20Processing%203B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6ymeam6xpaq3/Yr%209%2B10%20Information%20Processing%203B%20DVD.zip">http://www.filefactory.com/file/6ymeam6xpaq3/Yr%209%2B10%20Information%20Processing%203B%20DVD.zip</a>

## **Video**

<https://youtu.be/XbRvmuvQbrU>

Yr 9+10 Information Processing 4- Computer Technology Project

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/14gp4nk83fb/Yr%209%2B10%20Information%20Processing%204%20PPT.zip">http://www.filefactory.com/file/14gp4nk83fb/Yr%209%2B10%20Information%20Processing%204%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2w7elkkrykib/Yr%209%2B10%20Information%20Processing%204%20DVD.zip">http://www.filefactory.com/file/2w7elkkrykib/Yr%209%2B10%20Information%20Processing%204%20DVD.zip</a>

**The students need to attend the following computer practical courses for Chapter 5 to 11**

- Use of computer
- Word Processing
- Spread Sheet
- Database
- Powerpoint
- E mail
- Internet

## **Year 9+10 Science & Chemistry**

Yr 9+10 Science 1A- Wave Model

Link for power-points to view	<a href="http://www.filefactory.com/file/b2lyo12szqh/Yr%209%2B10%20Science%201A%20PPT.zip">http://www.filefactory.com/file/b2lyo12szqh/Yr%209%2B10%20Science%201A%20PPT.zip</a>
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with computer	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/45ywe3oh3y8n/Yr%209%2B10%20Science%201A%20DVD.zip">http://www.filefactory.com/file/45ywe3oh3y8n/Yr%209%2B10%20Science%201A%20DVD.zip</a>

## **Video**

<https://youtu.be/fL3vZy4yX0g>

Yr 9+10 Science 1B-Force, Mass, Acceleration, Newton Laws of Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/wkf6lkcjx9j/Yr%209%2B10%20Science%201B%20PPT.zip">http://www.filefactory.com/file/wkf6lkcjx9j/Yr%209%2B10%20Science%201B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5qx013eg5x6t/Yr%209%2B10%20Science%201B%20DVD.zip">http://www.filefactory.com/file/5qx013eg5x6t/Yr%209%2B10%20Science%201B%20DVD.zip</a>

## **Video**

<https://youtu.be/lyDwwq9ZLUI>

Yr 9+10 Science 1C-Force Problems + Electrical Energy

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2jviowzb5oy1/Yr%209%2B10%20Science%201C%20PPT.zip">http://www.filefactory.com/file/2jviowzb5oy1/Yr%209%2B10%20Science%201C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5wduhvovmko7/Yr%209%2B10%20Science%201C%20DVD.zip">http://www.filefactory.com/file/5wduhvovmko7/Yr%209%2B10%20Science%201C%20DVD.zip</a>

## **Video**

<https://youtu.be/cWCxuqkvdEM>

## Yr 9+10 Science 1D-Electrical Circuit + Light Energy

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6zg5xq7jmbul/Yr%209%2B10%20Science%201D%20PPT.zip">http://www.filefactory.com/file/6zg5xq7jmbul/Yr%209%2B10%20Science%201D%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7ajmjvhe9h47/Yr%209%2B10%20Science%201D%20DVD.zip">http://www.filefactory.com/file/7ajmjvhe9h47/Yr%209%2B10%20Science%201D%20DVD.zip</a>

### **Video**

<https://youtu.be/g5pHxjK7KgA>

<https://youtu.be/qxbRvMG9dYU>

## Yr 9+10 Science 1E-Nuclear Power + Gravitational Force

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5xtm93v8z3br/n/Yr_9+10_Science_1E_PPT.zip">http://www.filefactory.com/file/5xtm93v8z3br/n/Yr_9+10_Science_1E_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4yg2z6v238mn/n/Yr_9+10_Science_1E_DVD.zip">http://www.filefactory.com/file/4yg2z6v238mn/n/Yr_9+10_Science_1E_DVD.zip</a>

### **Video**

<https://youtu.be/-ULpl907nCc>

## Yr 9+10 Science 2A-Atomic Theory

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3yyer12mqs5p/Yr%209%2B10%20Science%202A%20PPT.zip">http://www.filefactory.com/file/3yyer12mqs5p/Yr%209%2B10%20Science%202A%20PPT.zip</a>
Link for JPEG+MP3 to view	<a href="http://www.filefactory.com/file/4z8u4weo0z37/Yr%209%2B10%20Science%202A%20DVD.zip">http://www.filefactory.com/file/4z8u4weo0z37/Yr%209%2B10%20Science%202A%20DVD.zip</a>



with portable DVD Player	
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### **Video**

<https://youtu.be/Ci9nmf1XxOM>

Yr 9+10 Science 2B-Periodic Table, Compounds & Reaction

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5no1ocrfedgr/Yr%209%2B10%20Science%202B%20PPT.zip">http://www.filefactory.com/file/5no1ocrfedgr/Yr%209%2B10%20Science%202B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/co7ddfd09qp/Yr%209%2B10%20Science%202B%20DVD.zip">http://www.filefactory.com/file/co7ddfd09qp/Yr%209%2B10%20Science%202B%20DVD.zip</a>

### **Video**

[https://youtu.be/K\\_W7sNikmg8](https://youtu.be/K_W7sNikmg8)

Yr 9+10 Science 2C-Compounds & Chemical Reaction Formula

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6focjaootv6b/Yr%209%2B10%20Science%202C%20PPT.zip">http://www.filefactory.com/file/6focjaootv6b/Yr%209%2B10%20Science%202C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/75tupne66wzj/Yr%209%2B10%20Science%202C%20DVD.zip">http://www.filefactory.com/file/75tupne66wzj/Yr%209%2B10%20Science%202C%20DVD.zip</a>

### **Video**

<https://youtu.be/KJD56En3XpM>

## Yr 9+10 Science 2D-Chemical Reactions

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3bq8zt4nied/Yr%209%2B10%20Science%202D%20PPT.zip">http://www.filefactory.com/file/3bq8zt4nied/Yr%209%2B10%20Science%202D%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3yv2159wykxm/Yr%209%2B10%20Science%202D%20DVD.zip">http://www.filefactory.com/file/3yv2159wykxm/Yr%209%2B10%20Science%202D%20DVD.zip</a>

### **Video**

<https://youtu.be/xet9us3WgAU>

## Yr 9+10 Science3A-Structures & Functions of Living Things

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/fkmrjk6fw0z/Yr%209%2B10%20Science%203A%20PPT.zip">http://www.filefactory.com/file/fkmrjk6fw0z/Yr%209%2B10%20Science%203A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6jvwom587crx/Yr%209%2B10%20Science%203A%20DVD.zip">http://www.filefactory.com/file/6jvwom587crx/Yr%209%2B10%20Science%203A%20DVD.zip</a>

### **Video**

<https://youtu.be/7O24rzyf60c>

## Yr 9+10 Science3B-DNA Structures Replication & Theory of Evolution

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4aky6sihvb61/Yr%209%2B10%20Science%203B%20PPT.zip">http://www.filefactory.com/file/4aky6sihvb61/Yr%209%2B10%20Science%203B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/278r3jhb2tbz/Yr%209%2B10%20Science%203B%20DVD.zip">http://www.filefactory.com/file/278r3jhb2tbz/Yr%209%2B10%20Science%203B%20DVD.zip</a>

## **Video**

<https://youtu.be/M5mvqUfGEkQ>

Yr 9+10 Science3C-Bio-chemistry & DNA Analysis

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4nshq0742ajb/Yr%209%2B10%20Science%203C%20PPT.zip">http://www.filefactory.com/file/4nshq0742ajb/Yr%209%2B10%20Science%203C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4emxvol59y8v/Yr%209%2B10%20Science%203C%20DVD.zip">http://www.filefactory.com/file/4emxvol59y8v/Yr%209%2B10%20Science%203C%20DVD.zip</a>

## **Video**

<https://youtu.be/8rXRS8pofWE>

Yr 9+10 Science3D-Endocrine System + Response of Body System to Diseases

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/s2zwle0dv37/Yr%209%2B10%20Science%203D%20PPT.zip">http://www.filefactory.com/file/s2zwle0dv37/Yr%209%2B10%20Science%203D%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5cvqxdermdel/Yr%209%2B10%20Science%203D%20DVD.zip">http://www.filefactory.com/file/5cvqxdermdel/Yr%209%2B10%20Science%203D%20DVD.zip</a>

## **Video**

[https://youtu.be/75SxE\\_ftGLY](https://youtu.be/75SxE_ftGLY)

Yr 9+10 Science3E-Human Reproduction

Link for power-points to view	<a href="http://www.filefactory.com/file/5pu65ljnxkh7/Yr%209%2B10%20Science%203E%20PPT.zip">http://www.filefactory.com/file/5pu65ljnxkh7/Yr%209%2B10%20Science%203E%20PPT.zip</a>
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with computer	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/hkzpnagp9mt/Yr%209%2B10%20Science%203E%20DVD.zip">http://www.filefactory.com/file/hkzpnagp9mt/Yr%209%2B10%20Science%203E%20DVD.zip</a>

## **Video**

[https://youtu.be/BN48jqTe2\\_0](https://youtu.be/BN48jqTe2_0)

## **Year 9+10 Mathematics**

- Yr 9+10 Maths 1A-Consumer Arithmetic, Rate, Variation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/47d3f8gqx92z/Yr%209%2B10Mathematics%201A%20PPT.zip">http://www.filefactory.com/file/47d3f8gqx92z/Yr%209%2B10Mathematics%201A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2g3oarp9c2s3/Yr%209%2B10%20Maths%201A%20DVD.zip">http://www.filefactory.com/file/2g3oarp9c2s3/Yr%209%2B10%20Maths%201A%20DVD.zip</a>

## **Video**

<https://youtu.be/oVCpsmBLt8Q>

- Yr 9+10 Maths 1B-Interest

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/654bb7rho617/Yr%209%2B10%20Mathematics%201B%20PPT.zip">http://www.filefactory.com/file/654bb7rho617/Yr%209%2B10%20Mathematics%201B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6tm4avc9e6dp/Yr%209%2B10%20Maths%201B%20%20DVD.zip">http://www.filefactory.com/file/6tm4avc9e6dp/Yr%209%2B10%20Maths%201B%20%20DVD.zip</a>

## **Video**

<https://youtu.be/ebZ8lxKl2Sw>

Yr 9+10 Maths 1C-Ratio, Direct, Variation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6xz05fr6lyvx/Yr%209%2B10%20Mathematics%201C%20PPT.zip">http://www.filefactory.com/file/6xz05fr6lyvx/Yr%209%2B10%20Mathematics%201C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5q02a3ilemvt/Yr%209%2B10%20Maths%201C%20DVD.zip">http://www.filefactory.com/file/5q02a3ilemvt/Yr%209%2B10%20Maths%201C%20DVD.zip</a>

### **Video**

[https://youtu.be/aVc7lGd\\_tVY](https://youtu.be/aVc7lGd_tVY)

Yr 9+10 Maths 2A-General Arithmetic

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/24n60e8n6jxn/Yr%209%2B10%20Mathematics%202A%20PPT.zip">http://www.filefactory.com/file/24n60e8n6jxn/Yr%209%2B10%20Mathematics%202A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33eoorcaz941/Yr%209%2B10%20Maths%202A%20DVD.zip">http://www.filefactory.com/file/33eoorcaz941/Yr%209%2B10%20Maths%202A%20DVD.zip</a>

### **Video**

<https://youtu.be/l-7P50ksiCU>

Yr 9+10 Maths 2B-Mathematical Equation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6loq853kkd37/Yr%209%2B10%20Mathematics%202B%20PPT.zip">http://www.filefactory.com/file/6loq853kkd37/Yr%209%2B10%20Mathematics%202B%20PPT.zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6muivqdidksb/Yr%209%2B10%20Maths%202B%20DVD.zip">http://www.filefactory.com/file/6muivqdidksb/Yr%209%2B10%20Maths%202B%20DVD.zip</a>
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## **Video**

<https://youtu.be/MLfU9ab2yEw>

Yr 9+10 Maths 3-Real Number

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2m0zxnuez1lf/Yr%209%2B10%20Mathematics%203%20PPT.zip">http://www.filefactory.com/file/2m0zxnuez1lf/Yr%209%2B10%20Mathematics%203%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7g6xrid6smpf/Yr%209%2B10%20Maths%203%20DVD.zip">http://www.filefactory.com/file/7g6xrid6smpf/Yr%209%2B10%20Maths%203%20DVD.zip</a>

## **Video**

<https://youtu.be/mgOMLBIPbZA>

Yr 9+10 Maths 4A-Equations and Inequations

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/48a348oa58gb/Yr%209%2B10%20Mathematics%204A%20PPT.zip">http://www.filefactory.com/file/48a348oa58gb/Yr%209%2B10%20Mathematics%204A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/74zmowzkiknv/Yr%209%2B10%20Maths%204A%20DVD.zip">http://www.filefactory.com/file/74zmowzkiknv/Yr%209%2B10%20Maths%204A%20DVD.zip</a>

## **Video**

<https://youtu.be/pU0sMTfJQpM>

## Yr 9+10 Maths 4B-Equation Problems+ Transportation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1f2qai1m533p/Yr%209%2B10%20Mathematics%204B%20PPT.zip">http://www.filefactory.com/file/1f2qai1m533p/Yr%209%2B10%20Mathematics%204B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/69bf9i8fjgl/Yr%209%2B10%20Maths%204B%20DVD.zip">http://www.filefactory.com/file/69bf9i8fjgl/Yr%209%2B10%20Maths%204B%20DVD.zip</a>

### **Video**

<https://youtu.be/Z4vVUtZ8VWs>

## Yr 9+10 Maths 5-Interpreting Graphics

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/558lidvexti1/Yr%209%2B10%20Mathematics%205%20PPT.zip">http://www.filefactory.com/file/558lidvexti1/Yr%209%2B10%20Mathematics%205%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3z9lic9sa8wv/Yr%209%2B10%20Maths%205%20DVD.zip">http://www.filefactory.com/file/3z9lic9sa8wv/Yr%209%2B10%20Maths%205%20DVD.zip</a>

### **Video**

[https://youtu.be/H\\_Ts-M0b2ho](https://youtu.be/H_Ts-M0b2ho)

## Yr 9+10 Maths 6-Co-ordinate Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/930qcsj2wh3/Yr%209%2B10%20Mathematics%206%20PPT.zip">http://www.filefactory.com/file/930qcsj2wh3/Yr%209%2B10%20Mathematics%206%20PPT.zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7n2h4ffrlbj/Yr%209%2B10%20Maths%206%20DVD.zip">http://www.filefactory.com/file/7n2h4ffrlbj/Yr%209%2B10%20Maths%206%20DVD.zip</a>
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### **Video**

<https://youtu.be/PmFX-myucX8>

Yr 9+10 Maths 7A-Chance & Data

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/b8x5t1xqi89/Yr%209%2B10%20Mathematics%207A%20PPT.zip">http://www.filefactory.com/file/b8x5t1xqi89/Yr%209%2B10%20Mathematics%207A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7e3wwuchkk81/Yr%209%2B10%20Maths%207A%20DVD.zip">http://www.filefactory.com/file/7e3wwuchkk81/Yr%209%2B10%20Maths%207A%20DVD.zip</a>

### **Video**

<https://youtu.be/yt5U0UJZJqo>

Yr 9+10 Maths 7B-Range+Medium

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1irhd8ppym7t/Yr%209%2B10%20Mathematics%207B%20PPT.zip">http://www.filefactory.com/file/1irhd8ppym7t/Yr%209%2B10%20Mathematics%207B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/47tesbljo37j/Yr%209%2B10%20Maths%207B%20DVD.zip">http://www.filefactory.com/file/47tesbljo37j/Yr%209%2B10%20Maths%207B%20DVD.zip</a>

### **Video**

<https://youtu.be/w-3-2A0x6ac>



## Yr 9+10 Maths 7C-Standard Deviation

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/60shlu8786dh/Yr%209%2B10%20Mathematics%207C%20PPT.zip">http://www.filefactory.com/file/60shlu8786dh/Yr%209%2B10%20Mathematics%207C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3mrfekuc6c91/Yr%209%2B10%20Maths%207C%20DVD.zip">http://www.filefactory.com/file/3mrfekuc6c91/Yr%209%2B10%20Maths%207C%20DVD.zip</a>

### **Video**

<https://youtu.be/uS1nrENKAp0>

## Yr 9+10 Maths 8-Measurement, Time, Perimeter, Area, Surface Area, Volume

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4u4xzc478clv/Yr%209%2B10%20Mathematics%208%20PPT.zip">http://www.filefactory.com/file/4u4xzc478clv/Yr%209%2B10%20Mathematics%208%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5hz1kvij59l/Yr%209%2B10%20Maths%208%20DVD.zip">http://www.filefactory.com/file/5hz1kvij59l/Yr%209%2B10%20Maths%208%20DVD.zip</a>

### **Video**

<https://youtu.be/fSyfe3tFsZw>

## Yr 9+10 Maths 9-Similarity

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7k2cgp0627m7/Yr%209%2B10%20Mathematics%209%20PPT.zip">http://www.filefactory.com/file/7k2cgp0627m7/Yr%209%2B10%20Mathematics%209%20PPT.zip</a>
Link for JPEG+MP3 to view	<a href="http://www.filefactory.com/file/1nyzddco4j2l/Yr%209%2B10%20Maths%209%20DVD.zip">http://www.filefactory.com/file/1nyzddco4j2l/Yr%209%2B10%20Maths%209%20DVD.zip</a>

with portable DVD Player

## **Video**

<https://youtu.be/Ss9Q9rXrLS0>

Yr 9+10 Maths 10A-Trigonometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7gmsa72whtpv/Yr%209%2B10%20Mathematics%2010A%20PPT.zip">http://www.filefactory.com/file/7gmsa72whtpv/Yr%209%2B10%20Mathematics%2010A%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6ajqnz124k7d/Yr%209%2B10%20Maths%2010A%20DVD.zip">http://www.filefactory.com/file/6ajqnz124k7d/Yr%209%2B10%20Maths%2010A%20DVD.zip</a>

## **Video**

<https://youtu.be/XklDpsdSBpk>

Yr 9+10 Maths 10B-Bearing

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5gfj97vey2wh/Yr%209%2B10%20Mathematics%2010B%20PPT.zip">http://www.filefactory.com/file/5gfj97vey2wh/Yr%209%2B10%20Mathematics%2010B%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6jluz0tgh5wb/Yr%209%2B10%20Maths%2010B%20DVD.zip">http://www.filefactory.com/file/6jluz0tgh5wb/Yr%209%2B10%20Maths%2010B%20DVD.zip</a>

## **Video**

<https://youtu.be/sVTclOAWipk>

## Yr 9+10 Maths 10C-Triangles without right angle

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/615jbcrhz6qb/Yr%209%2B10%20Mathematics%2010C%20PPT.zip">http://www.filefactory.com/file/615jbcrhz6qb/Yr%209%2B10%20Mathematics%2010C%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2udrnu3e5bzx/Yr%209%2B10%20Maths%2010C%20DVD.zip">http://www.filefactory.com/file/2udrnu3e5bzx/Yr%209%2B10%20Maths%2010C%20DVD.zip</a>

### **Video**

<https://youtu.be/yPazUb4JBeA>

## Yr 9+10 Maths 11-Geometry

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5e7hl7mdeu5l/Yr%209%2B10%20Mathematics%2011%20PPT.zip">http://www.filefactory.com/file/5e7hl7mdeu5l/Yr%209%2B10%20Mathematics%2011%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1rn4jhi996j9/Yr%209%2B10%20Maths%2011%20DVD.zip">http://www.filefactory.com/file/1rn4jhi996j9/Yr%209%2B10%20Maths%2011%20DVD.zip</a>

### **Video**

<https://youtu.be/pLVreAyLuX0>

## Yr 9+10 Maths 12-Further Geometry-The Circle

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2xa4dgmnmrsv/Yr%209%2B10%20Mathematics%2012%20PPT.zip">http://www.filefactory.com/file/2xa4dgmnmrsv/Yr%209%2B10%20Mathematics%2012%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/19k2qvykv0mp/Yr%209%2B10%20Maths%2012%20DVD.zip">http://www.filefactory.com/file/19k2qvykv0mp/Yr%209%2B10%20Maths%2012%20DVD.zip</a>

## **Video**

<https://youtu.be/7ZfzrTd6px4>

Yr 9+10 Maths 13-Logarithms, Functions and Graphs

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6jmdhjctveib/Yr%209%2B10%20Mathematics%2013%20PPT.zip">http://www.filefactory.com/file/6jmdhjctveib/Yr%209%2B10%20Mathematics%2013%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3q3k79hckl0n/Yr%209%2B10%20Maths%2013%20DVD.zip">http://www.filefactory.com/file/3q3k79hckl0n/Yr%209%2B10%20Maths%2013%20DVD.zip</a>

## **Video**

[https://youtu.be/fDBsITA7k\\_o](https://youtu.be/fDBsITA7k_o)

Yr 9+10 Maths 14-Polynomials & Curve Sketching

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3wii8xdez5t3/Yr%209%2B10%20Mathematics%2014%20PPT.zip">http://www.filefactory.com/file/3wii8xdez5t3/Yr%209%2B10%20Mathematics%2014%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1uid2zsk3v9v/Yr%209%2B10%20Maths%2014%20DVD.zip">http://www.filefactory.com/file/1uid2zsk3v9v/Yr%209%2B10%20Maths%2014%20DVD.zip</a>

## **Video**

<https://youtu.be/couFxWTPdAs>

## **Year 9+10 Physics**

**More lessons are being prepared & will be uploaded when finished.**

#### Yr 9+10 Physics-1.Process of Science-Data

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7fr3jja2z8n3/n/Yr_9+10_Physics_1_PPT.zip">http://www.filefactory.com/file/7fr3jja2z8n3/n/Yr_9+10_Physics_1_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/yiojmvopk3l/n/Yr_9+10_Physics_1_DVD.zip">http://www.filefactory.com/file/yiojmvopk3l/n/Yr_9+10_Physics_1_DVD.zip</a>

#### **Video**

<https://youtu.be/DiNtDcqbbqf0>

#### Yr 9+10 Physics-2.Force in one dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/gq2vov789bx/n/Yr_9+10_Physics_2_PPT.zip">http://www.filefactory.com/file/gq2vov789bx/n/Yr_9+10_Physics_2_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2reu8dxu1deb/n/Yr_9+10_Physics_2_DVD.zip">http://www.filefactory.com/file/2reu8dxu1deb/n/Yr_9+10_Physics_2_DVD.zip</a>

#### **Video**

[https://youtu.be/FkgL5g\\_ArFs](https://youtu.be/FkgL5g_ArFs)

#### Yr 9+10 Physics-3.Momentum in one dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4nkkd5ybbgbx/n/Yr_9+10_Physics_3_PPT.zip">http://www.filefactory.com/file/4nkkd5ybbgbx/n/Yr_9+10_Physics_3_PPT.zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/36zwvোধ0wnf/n/Yr_9+10_Physics_3_DVD.zip">http://www.filefactory.com/file/36zwvোধ0wnf/n/Yr_9+10_Physics_3_DVD.zip</a>
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### **Video**

[https://youtu.be/dC\\_sYmYGIH4](https://youtu.be/dC_sYmYGIH4)

Yr 9+10 Physics-4.Work, Energy, Power

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6qe3mqsknvn9/n/Yr_9+10_Physics_4_PPT.zip">http://www.filefactory.com/file/6qe3mqsknvn9/n/Yr_9+10_Physics_4_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5dl69ldxw7ub/n/Yr_9+10_Physics_4_DVD.zip">http://www.filefactory.com/file/5dl69ldxw7ub/n/Yr_9+10_Physics_4_DVD.zip</a>

### **Video**

<https://youtu.be/Ftt-MVajzHU>

Yr 9+10 Physics-5.Electrostatics

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5m5zy8krlivf/n/Yr_9+10_Physics_5_PPT.zip">http://www.filefactory.com/file/5m5zy8krlivf/n/Yr_9+10_Physics_5_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/41g8ko0jl05x/n/Yr_9+10_Physics_5_DVD.zip">http://www.filefactory.com/file/41g8ko0jl05x/n/Yr_9+10_Physics_5_DVD.zip</a>

### **Video**

[https://youtu.be/36NEJa5GI\\_g](https://youtu.be/36NEJa5GI_g)

## Yr 9+10 Physics-6.Waves

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/60n34kim8dop/n/Yr_9+10_Physics_6_PPT.zip">http://www.filefactory.com/file/60n34kim8dop/n/Yr_9+10_Physics_6_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/9ibdwtc6q2n/n/Yr_9+10_Physics_6_DVD.zip">http://www.filefactory.com/file/9ibdwtc6q2n/n/Yr_9+10_Physics_6_DVD.zip</a>

### **Video**

[https://youtu.be/gyTT0\\_jrtg](https://youtu.be/gyTT0_jrtg)

## Yr 9+10 Physics-7A. Nuclear Physics

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1t5a94i340hv/n/Yr_9+10_Physics_7A_PPT.zip">http://www.filefactory.com/file/1t5a94i340hv/n/Yr_9+10_Physics_7A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1ukvjdt53s11/n/Yr_9+10_Physics_7A_DVD.zip">http://www.filefactory.com/file/1ukvjdt53s11/n/Yr_9+10_Physics_7A_DVD.zip</a>

### **Video**

<https://youtu.be/8W3-PW8YMzo>

## Yr 9+10 Physics-7B.Nuclear Structure

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/54zslhmb7tur/n/Yr_9+10_Physics_7B_PPT.zip">http://www.filefactory.com/file/54zslhmb7tur/n/Yr_9+10_Physics_7B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/76f28zmse6rb/n/Yr_9+10_Physics_7B_DVD.zip">http://www.filefactory.com/file/76f28zmse6rb/n/Yr_9+10_Physics_7B_DVD.zip</a>

## **Video**

<https://youtu.be/RVJszw4RUxA>

Yr 9+10 Physics-7C.Binding Energy

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/i7w13pw1f3t/n/Yr_9+10_Physics_7C_PPT.zip">http://www.filefactory.com/file/i7w13pw1f3t/n/Yr_9+10_Physics_7C_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2fypivvknfh5/n/Yr_9+10_Physics_7C_DVD.zip">http://www.filefactory.com/file/2fypivvknfh5/n/Yr_9+10_Physics_7C_DVD.zip</a>

## **Video**

<https://youtu.be/2t9mK92K1t0>

Yr 9+10 Physics-7D.Nuclear Power Plant-Fusion Power

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55vkarvmswuz/n/Yr_9+10_Physics_7D_PPT.zip">http://www.filefactory.com/file/55vkarvmswuz/n/Yr_9+10_Physics_7D_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/11m3muqt1go1/n/Yr_9+10_Physics_7D_DVD.zip">http://www.filefactory.com/file/11m3muqt1go1/n/Yr_9+10_Physics_7D_DVD.zip</a>

## **Video**

<https://youtu.be/7X6N8Fome2c>

Yr 9+10 Physics-8-Motion-Vector



Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2q7w5ar7zi5r/n/Yr_9+10_Physics_8_PPT.zip">http://www.filefactory.com/file/2q7w5ar7zi5r/n/Yr_9+10_Physics_8_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2v9qts4any73/n/Yr_9+10_Physics_8_DVD.zip">http://www.filefactory.com/file/2v9qts4any73/n/Yr_9+10_Physics_8_DVD.zip</a>

## **Video**

<https://youtu.be/-mjava5ICEk>

Yr 9+10 Physics-9.Projectile Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6hww5e9b15b3/n/Yr_9+10_Physics_9_PPT.zip">http://www.filefactory.com/file/6hww5e9b15b3/n/Yr_9+10_Physics_9_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3rzle1ye0ppr/n/Yr_9+10_Physics_9_DVD.zip">http://www.filefactory.com/file/3rzle1ye0ppr/n/Yr_9+10_Physics_9_DVD.zip</a>

## **Video**

<https://youtu.be/iBgycKe7kpU>

Yr 9+10 Physics-10.Circular Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/pki8t6ykg6j/n/Yr_9+10_Physics_10_PPT.zip">http://www.filefactory.com/file/pki8t6ykg6j/n/Yr_9+10_Physics_10_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5cdciv4nmvih/n/Yr_9+10_Physics_10_DVD.zip">http://www.filefactory.com/file/5cdciv4nmvih/n/Yr_9+10_Physics_10_DVD.zip</a>

## **Video**

<https://youtu.be/Q6ACYuDB-U0>

Yr 9+10 Physics-11.Simple Harmonic Motion

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1yecno6fhvs1/n/Yr_9+10_Physics_11_PPT.zip">http://www.filefactory.com/file/1yecno6fhvs1/n/Yr_9+10_Physics_11_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2su5iz9uunvp/n/Yr_9+10_Physics_11_DVD.zip">http://www.filefactory.com/file/2su5iz9uunvp/n/Yr_9+10_Physics_11_DVD.zip</a>

### **Video**

<https://youtu.be/yEUg4OFSYRA>

Yr 9+10 Physics-12.Forces in two dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/32z5pjqhbirn/n/Yr_9+10_Physics_12_PPT.zip">http://www.filefactory.com/file/32z5pjqhbirn/n/Yr_9+10_Physics_12_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/14w87tdgao8j/n/Yr_9+10_Physics_12_DVD.zip">http://www.filefactory.com/file/14w87tdgao8j/n/Yr_9+10_Physics_12_DVD.zip</a>

### **Video**

<https://youtu.be/lbadKeQECdc>

Yr 9+10 Physics-13.Momentum in two dimension

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4aiwwwbjhyc5/n/Yr_9+10_Physics_13_PPT.zip">http://www.filefactory.com/file/4aiwwwbjhyc5/n/Yr_9+10_Physics_13_PPT.zip</a>

Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6j6f1nmi3jc7/n/Yr_9+10_Physics_13_DVD.zip">http://www.filefactory.com/file/6j6f1nmi3jc7/n/Yr_9+10_Physics_13_DVD.zip</a>
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## **Video**

<https://youtu.be/egpwYOAYlT8>

Yr 9+10 Physics-14.Electric current

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/qc498o00gnt/n/Yr_9+10_Physics_14_PPT.zip">http://www.filefactory.com/file/qc498o00gnt/n/Yr_9+10_Physics_14_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6fu0kzce1dk5/n/Yr_9+10_Physics_14_DVD.zip">http://www.filefactory.com/file/6fu0kzce1dk5/n/Yr_9+10_Physics_14_DVD.zip</a>

## **Video**

<https://youtu.be/juUyXfHZqDY>

Yr 9+10 Physics-15A.Electro-magnetism

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/36c43izs40ux/n/Yr_9+10_Physics_15_A_PPT.zip">http://www.filefactory.com/file/36c43izs40ux/n/Yr_9+10_Physics_15_A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4ptjwag2c9oj/n/Yr_9+10_Physics_15_A_DVD.zip">http://www.filefactory.com/file/4ptjwag2c9oj/n/Yr_9+10_Physics_15_A_DVD.zip</a>

## **Video**

<https://youtu.be/94LXr3ZZYcg>

## Yr 9+10 Physics-15B.Magnetic Torque

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/35vvgw4ak8fb/n/Yr_9+10_Physics_15_B_PPT.zip">http://www.filefactory.com/file/35vvgw4ak8fb/n/Yr_9+10_Physics_15_B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rjoo87bix3h/n/Yr_9+10_Physics_15_B_DVD.zip">http://www.filefactory.com/file/5rjoo87bix3h/n/Yr_9+10_Physics_15_B_DVD.zip</a>

### **Video**

[https://youtu.be/3Sh89cv\\_Xec](https://youtu.be/3Sh89cv_Xec)

## Yr 9+10 Physics-16A.Wave Part 2

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1eh8mda8y185/n/Yr_9+10_Physics_16_A_PPT.zip">http://www.filefactory.com/file/1eh8mda8y185/n/Yr_9+10_Physics_16_A_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/58mol4zgvrn/n/Yr_9+10_Physics_16A_DVD.zip">http://www.filefactory.com/file/58mol4zgvrn/n/Yr_9+10_Physics_16A_DVD.zip</a>

### **Video**

<https://youtu.be/Agf4NANG1Tw>

## Yr 9+10 Physics-16B.Standing Waves in wire

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1mg49e17f6kl/n/Yr_9+10_Physics_16B_PPT.zip">http://www.filefactory.com/file/1mg49e17f6kl/n/Yr_9+10_Physics_16B_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/39hymtmtahft/n/Yr_9+10_Physics_16B_DVD.zip">http://www.filefactory.com/file/39hymtmtahft/n/Yr_9+10_Physics_16B_DVD.zip</a>

## **Video**

<https://youtu.be/E1hRveCdiVk>

## **EXERCISES**

[www.highlightcomputer.com/Y9101112Exercises.pdf](http://www.highlightcomputer.com/Y9101112Exercises.pdf)

## **PROFESSIONAL DIPLOMA IN SCHOOL & VOCATIONAL EDUCATION)**

## **(BACHELOR OF EDUCATION (SCHOOL & VOCATIONAL EDUCATION)**

[www.highlightcomputer.com/bedschoolvet.htm](http://www.highlightcomputer.com/bedschoolvet.htm)

This course aims to provide the teacher education theories and practical applications in school and vocational education classes.

Principles of teaching , learning , training and assessment are combined with instruction design methodologies and knowledge related to learning environment.

Modern learning technologies and technology in classroom contexts are added..

Teachers who are working in voluntary schools can be provided with necessary teaching and training knowledge to work as qualified teachers by attending this course.

### **Pre-requisite**

Degree Holders	Non Degree Holders
<ul style="list-style-type: none"><li>• Bachelor Degree &amp; Teaching Experiences</li></ul>	<ul style="list-style-type: none"><li>• Completion of Year 11+12 (Certificate in General &amp; Vocational Education Level 4) PLUS</li><li>• Completion of Diploma level qualification in Engineering, IT &amp; Management courses of IQY Technical College &amp; other vocational colleges/schools</li></ul>

### **Course structure**

This course integrates Diploma in Teaching Practice , Teaching Practicum and Advanced study in Education to achieve 120 credit points required to get Professional Diploma in School & Vocational Education .awarded by IQY Technical College (Authorized Training Centre of Singapore Institute of Engineering Technologists, Member of ASEAN Federation of Engineering Organizations)

The universities (STC Technological University & St Clements University) affiliated to IQY Technical College award Bachelor of Education (School & Vocational Education) to holders of Professional Diploma in School & Vocational Education.

### **Year 1/2**

## **Diploma in Teaching Practice (60 credits)**

jointly taught by (STC Technological University/St Clements University)  
Singapore Institute of Engineering Technologists/ IQY Technical College)

## **ENROLMENT LINK**

**Click the following link & fill the form.**

<http://www.emailmeform.com/builder/form/tq48xQ6acb>

## **List of Subjects for Teaching Practice**

ED101P Teaching Support (5 Credits)

ED102P Application of Information Technology in School Education (5 Credits)

ED103P Classroom Management (5 Credits)

ED104P Teaching Portfolio (5 Credits)

ED105P Inclusive Teaching (5 Credits)

ED106P Subject Area Knowledge (5 Credits)

ED107 Theory of Education, Educational Technology & Teaching Practice

(15 Credits)

ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )  
ED107B-Education Technology (ED102) (Slide 61 to 100)  
ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)  
ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)  
ED107E-Teaching& Learning (Slide 141 to 160+ Slide 200 to 240 )  
ED107F-Inclusive Teaching (ED105 Inclusive Teaching Slide 161 to 200)  
ED107G-Evaluation& Assessment (Slide 301 to 320)

ED108 Curriculum Study , Teaching & Learning (15- Credits)

Interpreting Curriculums

## Study Sequence for Graduates

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice  
(15 Credits)

ED108 Curriculum Study , Teaching & Learning (15 Credits)

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

ED101P Teaching Support (5 Credits)

ED102P Application of Information Technology in School Education (5 Credits)

ED103P Classroom Management (5 Credits)

ED104P Teaching Portfolio (5 Credits)

ED105P Inclusive Teaching (5 Credits)

## Study Sequence for Experienced Teachers

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice  
(15 Credits)

ED108 Curriculum Study , Teaching & Learning (15 Credits)

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

The following subjects can be exempted by presenting the reference letter from the school.

ED101 Teaching Support (5 Credits)

ED103 Classroom Management (5 Credits)

ED105 Inclusive Teaching (5 Credits)

The following subject needs to be studied

ED102 Application of Information Technology in School Education (5 Credits)

Teaching portfolio needs to be presented for the following subject

ED104 Teaching Portfolio(5 Credits)



# REFERENCE EDUCATION THEORIES

ED 101 Theory of Education (5 Credits)

ED 102 Education Technology (5 Credits)

ED 103 Teaching Practice (5 Credits)

ED 104 Lesson Planning (5 Credits)

ED 105 Principle of Learning (5 Credits)

ED 106 Interpreting Curriculums (5 Credits)

## VIDEOS

IQY Teacher Training 1

<https://youtu.be/CHqmQ1Ifwa4>

IQY Teacher Training 2

<https://youtu.be/i-VpgngRumw>

IQY Teacher Training 3

<https://youtu.be/eYujIkvdPYw>

IQY Teacher Training 4

<https://youtu.be/n9y49b5qO8g>

## TEACHER TRAINING- IQY-AUDIO Download Links

**VN860195.zip (96.74MB)**

<http://www.filefactory.com/file/6s4a0e57kz25/n/VN860195.zip>

**VN860197.zip (98.04MB)**

<http://www.filefactory.com/file/19yvqu2vqrdl/n/VN860197.zip>

**VN860196.zip (39.01MB)**

<http://www.filefactory.com/file/5ukezf8qmmb3/n/VN860196.zip>

**VN860136 (147MB)**

<http://www.filefactory.com/file/3wbq5wqon6zn/VN860136.zip>

## STUDY GUIDES & LESSONS

### ED101 to ED106

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

### ED107 Lessons

ED107 Exercises

[www.highlightcomputer.com/ED107Exercises.pdf](http://www.highlightcomputer.com/ED107Exercises.pdf)

ED107 Part 1 (Slide 1 to 20) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1071.pdf](http://www.highlightcomputer.com/ED1071.pdf)



ED107 Part 2 (Slide 21 to 40) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1072.pdf](http://www.highlightcomputer.com/ED1072.pdf)

ED107 Part 3 (Slide 41 to 60) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1073.pdf](http://www.highlightcomputer.com/ED1073.pdf)

ED107 Part 4 (Slide 61 to 80) ED107B-Education Technology (ED102) (Slide 61 to 100)

[www.highlightcomputer.com/ED1074.pdf](http://www.highlightcomputer.com/ED1074.pdf)

ED107 Part 5 (Slide 81 to 120) ED107B-Education Technology (ED102) (Slide 61 to 100)+ ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1075.pdf](http://www.highlightcomputer.com/ED1075.pdf)

ED107 Part 6 (Slide 121 to 140) ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1076.pdf](http://www.highlightcomputer.com/ED1076.pdf)

ED107 Part 7 (Slide 141 to 160) ED107E-Teaching& Learning (Slide 141 to 160)

[www.highlightcomputer.com/ED1077.pdf](http://www.highlightcomputer.com/ED1077.pdf)

ED107 Part 8 (Slide 161 to 180) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1078.pdf](http://www.highlightcomputer.com/ED1078.pdf)

ED107 Part 9 (Slide 181 to 200) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1079.pdf](http://www.highlightcomputer.com/ED1079.pdf)

ED107 Part 10 (Slide 201 to 220) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10710.pdf](http://www.highlightcomputer.com/ED10710.pdf)

ED107 Part 11 (Slide 221 to 240) (ED107E-Teaching& Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10711.pdf](http://www.highlightcomputer.com/ED10711.pdf)

ED107 Part 12 (Slide 241 to 260) ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10712.pdf](http://www.highlightcomputer.com/ED10712.pdf)

ED107 Part 13 (Slide 261 to 280) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to

300)

[www.highlightcomputer.com/ED10713.pdf](http://www.highlightcomputer.com/ED10713.pdf)

ED107 Part 14 (Slide 261 to 300) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10714.pdf](http://www.highlightcomputer.com/ED10714.pdf)

ED107 Part 15 (Slide 301 to 320)- ED107G-Evaluation& Assessment (Slide 301 to 320)

[www.highlightcomputer.com/ED10715.pdf](http://www.highlightcomputer.com/ED10715.pdf)

## ED108 Lessons

ED108 Exercises

[www.highlightcomputer.com/ED108Exercises.pdf](http://www.highlightcomputer.com/ED108Exercises.pdf)

ED108 Part 1 (Slide 1 to 20)

[www.highlightcomputer.com/ED1081.pdf](http://www.highlightcomputer.com/ED1081.pdf)

ED108 Part 2 (Slide 21 to 40)

[www.highlightcomputer.com/ED1082.pdf](http://www.highlightcomputer.com/ED1082.pdf)

ED108 Part 3 (Slide 41 to 60)

[www.highlightcomputer.com/ED1083.pdf](http://www.highlightcomputer.com/ED1083.pdf)

ED108 Part 4 (Slide 61 to 80)

[www.highlightcomputer.com/ED1084.pdf](http://www.highlightcomputer.com/ED1084.pdf)

ED108 Part 5 (Slide 81 to 100)

[www.highlightcomputer.com/ED1085.pdf](http://www.highlightcomputer.com/ED1085.pdf)

ED108 Part 6 (Slide 101 to 120)

[www.highlightcomputer.com/ED1086.pdf](http://www.highlightcomputer.com/ED1086.pdf)

ED108 Part 7 (Slide 121 to 140)

[www.highlightcomputer.com/ED1087.pdf](http://www.highlightcomputer.com/ED1087.pdf)

ED108 Part 8 (Slide 141 to 160)

[www.highlightcomputer.com/ED1088.pdf](http://www.highlightcomputer.com/ED1088.pdf)

|

**OPTIONAL**

( Certificate in Vocational Education& Training-Engineering Technology Teaching)

Online training & assignment

<http://www.highlightcomputer.com/gtc.htm>

## ADDITIONAL REFERENCES FOR ED107 LESSONS

ED 101 Theory of Education

[www.highlightcomputer.com/ED101.ppt](http://www.highlightcomputer.com/ED101.ppt)

ED 102 Education Technology

[www.highlightcomputer.com/ED102.ppt](http://www.highlightcomputer.com/ED102.ppt)

Integration of Learning Technology in Teaching & Learning Part 1

[http://youtu.be/bV\\_CJdY7fs0](http://youtu.be/bV_CJdY7fs0)

Technology in Classroom

<http://youtu.be/rzLQq6D6-OU>

ED 103 Teaching Practice

[www.highlightcomputer.com/ED103Part1.ppt](http://www.highlightcomputer.com/ED103Part1.ppt)

[www.highlightcomputer.com/ED103Part2.ppt](http://www.highlightcomputer.com/ED103Part2.ppt)

ED 104 Lesson Planning

[www.highlightcomputer.com/ED104.ppt](http://www.highlightcomputer.com/ED104.ppt)

ED 105 Principle of Learning

[www.highlightcomputer.com/ED105.ppt](http://www.highlightcomputer.com/ED105.ppt)

ED 106 Interpreting Curriculums

[www.highlightcomputer.com/ED106.ppt](http://www.highlightcomputer.com/ED106.ppt)

## ED101 to ED106 ASSIGNMENTS

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

Year 3 / 4

## Professional Diploma in School & Vocational Education

### 60 credits in the following subjects

ED437 Teaching Skills (5 Credits)

ED438 Assessment & Feedback (5 Credits)

ED439 Fostering Students' Learning (5 Credits)

ED 402A Educational Leadership & Change Management in School Education

(10 Credits)

ED407A Learning Environment in School Education(10 Credits)

ED440 Science Teaching (5 Credits)  
ED441 Mathematics Teaching (5 Credits)  
ED442 Technology Teaching (5 Credits)  
ED443 TVET Teaching (10 Credits)

## GROUP (1) CURRICULUM SUBJECTS

### ED437 Teaching Skills (5 Credit Points)

- **ED431-Critical Thinking**

[www.highlightcomputer.com/ED431CriticalThinking.pptx](http://www.highlightcomputer.com/ED431CriticalThinking.pptx)

## VIDEOS

<https://youtu.be/Cekuc04E2xM>

### Assessment

-

### Assignment

Refer your textbooks, select one chapter and write the followings

- the main purpose, the key question, the most important information, the main references or conclusions, the key idea, the main assumptions of the material, the implications, and the main point of view.
- Prepare one assessment requiring critical thinking by the students.
- Do internet research by using [www.google.com](http://www.google.com) and type Socratic questioning then submit the examples of Socratic questions.

- **ED431-Reflection & Evaluation (Day 2)**

[www.highlightcomputer.com/ED431ReflectionEvaluation.pptx](http://www.highlightcomputer.com/ED431ReflectionEvaluation.pptx)

## VIDEO

[https://youtu.be/Ezre\\_83QIfE](https://youtu.be/Ezre_83QIfE)

### Assessment

### Assignment

Write the lesson plan on how will you provide Problem Based Learning & Self Reflection for a group of students

Write one significant event in your class teaching and write down your own plan how to improve your teaching.

- **ED431-Teaching and learning strategies (Day 3)**

[www.highlightcomputer.com/ED431Teachinglearningstrategies.pptx](http://www.highlightcomputer.com/ED431Teachinglearningstrategies.pptx)

## VIDEO

[https://youtu.be/gMJi\\_3CSDq0](https://youtu.be/gMJi_3CSDq0)

### Assessment

#### Assignment

- Outline 3 teaching strategies that you prefer to apply in your teaching and discuss the good points and bad points. Also write how to improve them for best teaching and learning

### ED438 Assessment & Feedback (5 Credit Points)

ED432A-assessment principles+ED432B-constructive feedback+

## Lessons

**Down load and study the following power point slides and answer the questions**

[www.highlightcomputer.com/ED432ABC.pptx](http://www.highlightcomputer.com/ED432ABC.pptx)

## VIDEO

<https://youtu.be/CIi1k4NECoQ>

### Assessment

#### Assignment

ED432A-assessment principles

Provide three assessment evidences that you use in teaching.

ED432B-constructive feedback

Provide three assessment feedbacks that you provide to your students

### ED439 Fostering Students' Learning (5 Credit Points)

ED433H-consequences for student learning+ED433I-improving students learning+ED433J-different ways of thinking about university teaching+ED433K-identify problems and issues

## Lessons

**Down load and study the following power point slides and answer the questions**

[www.highlightcomputer.com/ED433HIJK.pptx](http://www.highlightcomputer.com/ED433HIJK.pptx)

### VIDEO

<https://youtu.be/F2gUlg4qBho>

### Assessment

### Assignment

Provide one task that you want your students to do critical thinking.

Write one learning outcome of the lesson that you are teaching & provide your plan how to teach, facilitate & assess the students to reach that outcome

**ED434H-reflect critically on and evaluate own teaching+ED434J-reflecting on learning from formal learning programs**

## Lessons

**Down load and study the following power point slides and answer the questions**

[www.highlightcomputer.com/ED434HIJK.pptx](http://www.highlightcomputer.com/ED434HIJK.pptx)

### VIDEO

<https://youtu.be/wIbNCUXxlMI>

### Assessment

### Assignment

Write a plan how will you maximize the effectiveness of teaching & learning for your students

## ED 402A Educational Leadership & Change Management for School Education (10 CP)

### Video

· Day 10 Session 2-Change Management

<http://youtu.be/ynkcUcKr8tQ>

· Powerpoint+Audio  
POWER POINT

· Day10Session2+3.ppt (0.57MB)

<http://www.mongroupsdney1.com/Day10Session23.ppt>

· AUDIO

<http://yourlisten.com/Kyaw.Naing/day-10-session-23>

## **ASSIGNMENT**

Down load the following file

[www.highlightcomputer.com/MgtAdvDip.zip](http://www.highlightcomputer.com/MgtAdvDip.zip)

Read the contents in "Mgt 211" and answer the followings.

- Q1. How does leadership relate to management?
- Q2. Explain Instructional leadership
- Q3. Explain Transformational leadership
- Q4. Explain Moral leadership
- Q5. Explain Participative leadership
- Q6. Explain Managerial leadership
- Q7. Explain Contingent leadership
- Q8. Explain New Model of Leadership
- Q9. Compare manager and leader.
- Q10. What are the competencies of a leader?
- Q11. What type of leadership is preferred by you and provide the reason.

### **ED407A Learning Environment in Schools (10 CP)**

· POWER POINT

Day10Session1.ppt (11.78MB)

<http://www.mongroupsyzdney1.com/Day10Session1.ppt>

AUDIO

<http://yourlisten.com/Kyaw.Naing/day-10-session-1>

## **ASSIGNMENT**

Based on your classroom experience, write the factors important for class room environment.

### **Project**

Prepare a project plan how to develop a school that will provide the education for needy students.

## **GROUP (2) TEACHING PRACTICE SUBJECTS**

### **ED440 Science Teaching (5 credits)**

Review the Science Teaching Videos in the following links

<http://www.highlightcomputer.com/y712lessons.htm#A>

<http://www.highlightcomputer.com/y910.htm>

Then develop your own teaching plan which combines e-Learning strategies. Your plan should contain

- Written notes to be given to students
- The lessons to be explained to the students
- Exercises to be given to the students
- Time frame and detailed teaching plan

### **ED441 Mathematics Teaching (5 credits)**

Review the Mathematics Teaching Videos in the following links

<http://www.highlightcomputer.com/y712lessons.htm#A>

<http://www.highlightcomputer.com/y910.htm>

Then develop your own teaching plan which combines e-Learning strategies. Your plan should contain

- Written notes to be given to students
- The lessons to be explained to the students
- Exercises to be given to the students
- Time frame and detailed teaching plan

### **ED442 Technology Teaching (5 credits)**

Review the Technology Teaching Videos in the following links

<http://www.highlightcomputer.com/y712lessons.htm#A>

<http://www.highlightcomputer.com/y910.htm>

Then develop your own teaching plan which combines e-Learning strategies. Your plan should contain

- Written notes to be given to students
- The lessons to be explained to the students
- Exercises to be given to the students
- Time frame and detailed teaching plan

## GROUP (3) TVET TEACHING SUBJECTS

### ED443 TVET Teaching (10 Credits)

#### Lesson Video

NNER Conference Presentation by Myanmar Vocational Training Collaboration Youtube

<https://youtu.be/2ZYnsJWSZU4>

(1) Select any two Vocational Education Subjects from the following link

<http://www.mongroupsydney.com/mvtclessons.htm>

(2) Teach the students

(3) Provide evidence of their works

## GROUP (4) SELF DEVELOPMENT SUBJECTS

[www.highlightcomputer.com/selfdevelopmentsubjects.htm](http://www.highlightcomputer.com/selfdevelopmentsubjects.htm)

### Download from above link

ED 308 Computer Supported Learning & Distance Education.zip (44.37MB)

ED 408 Middle & High School Teaching.zip (3.63MB)

ED 403 School Culture.zip (14.7MB)

ED 305 Science Teaching.zip (14.87MB)

ED 306 Technology Teaching.zip (4.63MB)

ED 304 Maths Teaching.zip (10.03MB)

ED 204 School & Vocational Education.zip (26.56MB)

ED 208 Inclusive Teaching.zip (5.38MB)

ED 207 Teacher Education.zip (9.65MB)



**ED 205 Teaching & Measuring.zip (3.79MB)**

**ED 203 K-12 Education.zip (3.17MB)**

# ENGINEERING EDUCATION RESOURCES DOWNLOAD LINK 1

Download Curriculum + Study Guide & Follow it

**Curriculum** Click [HERE](#) to download

**Study Guide** Click [HERE](#) to download

<http://www.mongroupsyzdney1.com/DipEnggEdithsubjectinstruction4.pdf>

The study lessons are also available in DVDs

## Study Instructions

- Open the links
- Study the Power-points in PPT Folder
- Read the books
- Do & submit the assignments

**ED 101 Theory of Education.zip (23.67MB)**

[http://www.filefactory.com/file/3t33gwi784v7/n/ED\\_101\\_Theory\\_of\\_Education.zip](http://www.filefactory.com/file/3t33gwi784v7/n/ED_101_Theory_of_Education.zip)

**ED 102 Education Technology.zip (11.2MB)**

[http://www.filefactory.com/file/40g2hbgw9w8j/n/ED\\_102\\_Education\\_Technology.zip](http://www.filefactory.com/file/40g2hbgw9w8j/n/ED_102_Education_Technology.zip)

**ED 103 Teaching Practice.zip (141.12MB)**

[http://www.filefactory.com/file/1a4oq28bt3p3/n/ED\\_103\\_Teaching\\_Practice.zip](http://www.filefactory.com/file/1a4oq28bt3p3/n/ED_103_Teaching_Practice.zip)

**ED 104 Lesson Planning.zip (19.48MB)**

[http://www.filefactory.com/file/71mna0obhwef/n/ED\\_104\\_Lesson\\_Planning.zip](http://www.filefactory.com/file/71mna0obhwef/n/ED_104_Lesson_Planning.zip)

**ED 105 Principle of Learning.zip (44.1MB)**

[http://www.filefactory.com/file/aeqv4r9g3x/n/ED\\_105\\_Principle\\_of\\_Learning.zip](http://www.filefactory.com/file/aeqv4r9g3x/n/ED_105_Principle_of_Learning.zip)

**ED 106 Interpreting Curriculums.zip (2.27MB)**

[http://www.filefactory.com/file/lw74srxj0rn/n/ED\\_106\\_Interpreting\\_Curriculums.zip](http://www.filefactory.com/file/lw74srxj0rn/n/ED_106_Interpreting_Curriculums.zip)

**ED 107 Teaching & Learning.zip (306.62MB)**

[http://www.filefactory.com/file/124b2gc7ezar/n/ED\\_107\\_Teaching\\_&\\_Learning.zip](http://www.filefactory.com/file/124b2gc7ezar/n/ED_107_Teaching_&_Learning.zip)

**ED 201 Class Room Mgt & Teaching.zip (10.07MB)**

[http://www.filefactory.com/file/6e8atxrh0erv/n/ED\\_201\\_Class\\_Room\\_Mgt\\_&\\_Teaching.zip](http://www.filefactory.com/file/6e8atxrh0erv/n/ED_201_Class_Room_Mgt_&_Teaching.zip)

**ED 202 Curriculum & Design.zip (117.76MB)**

[http://www.filefactory.com/file/6u0js59q9hqv/n/ED\\_202\\_Curriculum\\_&\\_Design.zip](http://www.filefactory.com/file/6u0js59q9hqv/n/ED_202_Curriculum_&_Design.zip)

**ED 203 -4.Learning+Facilitation+Teaching in VET.zip (13.49MB)**

[http://www.filefactory.com/file/4tatd9rxh2d/n/ED\\_203\\_-4.Learning+Facilitation+Teaching\\_in\\_VET.zip](http://www.filefactory.com/file/4tatd9rxh2d/n/ED_203_-4.Learning+Facilitation+Teaching_in_VET.zip)

**ED 204-10.Workbased Learning & Assessment Samples.zip (21.14MB)**

[http://www.filefactory.com/file/veyqzqldmf9/n/ED\\_204-10.Workbased\\_Learning\\_&\\_Assessment\\_Samples.zip](http://www.filefactory.com/file/veyqzqldmf9/n/ED_204-10.Workbased_Learning_&_Assessment_Samples.zip)

**ED 205-8.Guides for preparing teaching & training portfolios.zip (0.29MB)**

[http://www.filefactory.com/file/6mlxaeon9wx/n/ED\\_205-8.Guides\\_for\\_preparing\\_teaching\\_&\\_training\\_portfolios.zip](http://www.filefactory.com/file/6mlxaeon9wx/n/ED_205-8.Guides_for_preparing_teaching_&_training_portfolios.zip)

**ED 205 Teaching & Measuring.zip (183.16MB)**

[http://www.filefactory.com/file/s9gg67iobab/n/ED\\_205\\_Teaching\\_&\\_Measuring.zip](http://www.filefactory.com/file/s9gg67iobab/n/ED_205_Teaching_&_Measuring.zip)

**ED 206 Designing Instructions & Assessment.zip (165.42MB)**

[http://www.filefactory.com/file/5lpiyx5gberl/n/ED\\_206\\_Designing\\_Instructions\\_&\\_Assessment.zip](http://www.filefactory.com/file/5lpiyx5gberl/n/ED_206_Designing_Instructions_&_Assessment.zip)

**ED 208 Inclusive Teaching.zip (5.39MB)**

[http://www.filefactory.com/file/46ivzhbhhen3/n/ED\\_208\\_Inclusive\\_Teaching.zip](http://www.filefactory.com/file/46ivzhbhhen3/n/ED_208_Inclusive_Teaching.zip)

**ED 301 Educational Policy.zip (15.38MB)**

[http://www.filefactory.com/file/2xkwst46vht/n/ED\\_301\\_Educational\\_Policy.zip](http://www.filefactory.com/file/2xkwst46vht/n/ED_301_Educational_Policy.zip)

**ED 304 Maths Teaching.zip (22.62MB)**

[http://www.filefactory.com/file/48z4i2lcvrtf/n/ED\\_304\\_Maths\\_Teaching.zip](http://www.filefactory.com/file/48z4i2lcvrtf/n/ED_304_Maths_Teaching.zip)

**ED 305 Science Teaching.zip (30.29MB)**

[http://www.filefactory.com/file/12qkzj2dx61x/n/ED\\_305\\_Science\\_Teaching.zip](http://www.filefactory.com/file/12qkzj2dx61x/n/ED_305_Science_Teaching.zip)

**ED 306 Technology Teaching.zip (18.06MB)**

[http://www.filefactory.com/file/3pw5a25k6sxh/n/ED\\_306\\_Techology\\_Teaching.zip](http://www.filefactory.com/file/3pw5a25k6sxh/n/ED_306_Techology_Teaching.zip)

**ED 308 Computer Supported Learning & Distance Education.zip (53.69MB)**

[http://www.filefactory.com/file/4wsravb633u1/n/ED\\_308\\_Computer\\_Supported\\_Learning\\_& Distance\\_Education.zip](http://www.filefactory.com/file/4wsravb633u1/n/ED_308_Computer_Supported_Learning_& Distance_Education.zip)

**ED309 Educational Communication Assignment Tasks-806A.zip (7.43MB)**

[http://www.filefactory.com/file/3b2ixjnlnojp/n/ED309\\_Educational\\_Communication\\_Assignment\\_Tasks-806A.zip](http://www.filefactory.com/file/3b2ixjnlnojp/n/ED309_Educational_Communication_Assignment_Tasks-806A.zip)

**ED309 Educational Communication Assignment Tasks-806A Modified.zip (0.22MB)**

[http://www.filefactory.com/file/5y8l1y8bnikd/n/ED309\\_Educational\\_Communication\\_Assignment\\_Tasks-806A\\_Modified.zip](http://www.filefactory.com/file/5y8l1y8bnikd/n/ED309_Educational_Communication_Assignment_Tasks-806A_Modified.zip)

**ED 310 Learning Technology.zip (459.98MB)**

[http://www.filefactory.com/file/44yueyfvjmq3/n/ED\\_310\\_Learning\\_Technology.zip](http://www.filefactory.com/file/44yueyfvjmq3/n/ED_310_Learning_Technology.zip)

**ED311 Outcome Based Education +PPT.zip (4.82MB)**

[http://www.filefactory.com/file/txs5d8c84l5/n/ED311\\_Outcome\\_Based\\_Education\\_+PPT.zip](http://www.filefactory.com/file/txs5d8c84l5/n/ED311_Outcome_Based_Education_+PPT.zip)

**ED312 Technology in Class Room PPT.zip (159.81MB)**

[http://www.filefactory.com/file/1po60rdbqv1b/n/ED312\\_Technology\\_in\\_Class\\_Room\\_PPT.zip](http://www.filefactory.com/file/1po60rdbqv1b/n/ED312_Technology_in_Class_Room_PPT.zip)

**ED313 Computer Supported Learning II PPT.zip (4.57MB)**

[http://www.filefactory.com/file/5i6bd7x2hwhp/n/ED313\\_Computer\\_Supported\\_Learning\\_II\\_PPT.zip](http://www.filefactory.com/file/5i6bd7x2hwhp/n/ED313_Computer_Supported_Learning_II_PPT.zip)

**ED 401 Adult Learning Technology.zip (231.99MB)**

[http://www.filefactory.com/file/2bbnj2jkgfe9/n/ED\\_401\\_Adult\\_Learning\\_Technology.zip](http://www.filefactory.com/file/2bbnj2jkgfe9/n/ED_401_Adult_Learning_Technology.zip)

**ED 402 Educational Leadership.zip (18.45MB)**

[http://www.filefactory.com/file/3mtsvd6vsrt9/n/ED\\_402\\_Educational\\_Leadership.zip](http://www.filefactory.com/file/3mtsvd6vsrt9/n/ED_402_Educational_Leadership.zip)

**ED 404 Educational Research.zip (11.08MB)**

[http://www.filefactory.com/file/2msl5o9mg43/n/ED\\_404\\_Educational\\_Research.zip](http://www.filefactory.com/file/2msl5o9mg43/n/ED_404_Educational_Research.zip)

**ED 405 Training Principle.zip (29.85MB)**

[http://www.filefactory.com/file/fck9tmb3jov/n/ED\\_405\\_Training\\_Principle.zip](http://www.filefactory.com/file/fck9tmb3jov/n/ED_405_Training_Principle.zip)

**ED 407 Learning Environment.zip (54.18MB)**

[http://www.filefactory.com/file/5yfgv3fqddz5/n/ED\\_407\\_Learning\\_Environment.zip](http://www.filefactory.com/file/5yfgv3fqddz5/n/ED_407_Learning_Environment.zip)

**ED 408 Rules Regulations & Accreditation.zip (7.84MB)**

[http://www.filefactory.com/file/2n9ao2ndnwsr/n/ED\\_408\\_Rules\\_Regulations\\_& Accreditation.zip](http://www.filefactory.com/file/2n9ao2ndnwsr/n/ED_408_Rules_Regulations_& Accreditation.zip)

**ED 409 Outcome Based Education.zip (0.88MB)**

[http://www.filefactory.com/file/49i6ra3iolg5/n/ED\\_409\\_Outcome\\_Based\\_Education.zip](http://www.filefactory.com/file/49i6ra3iolg5/n/ED_409_Outcome_Based_Education.zip)

**ED411+412+413 General References.zip (28.41MB)**

[http://www.filefactory.com/file/6cd9e02dp1x3/n/ED411+412+413\\_General\\_References.zip](http://www.filefactory.com/file/6cd9e02dp1x3/n/ED411+412+413_General_References.zip)

**ED411Engineering Education 1.zip (24.41MB)**

[http://www.filefactory.com/file/qtqvrvpn6fr/n/ED411Engineering\\_Education\\_1.zip](http://www.filefactory.com/file/qtqvrvpn6fr/n/ED411Engineering_Education_1.zip)

**ED412 Engineering Education 2.zip (15.21MB)**

[http://www.filefactory.com/file/5x488334wian/n/ED412\\_Engineering\\_Education\\_2.zip](http://www.filefactory.com/file/5x488334wian/n/ED412_Engineering_Education_2.zip)

**ED413 Part3 Strategic Planning in Engg Education.zip (11.5MB)**

[http://www.filefactory.com/file/3jbpgf67gy5t/n/ED413\\_Part3\\_Strategic\\_Planning\\_in\\_Engg\\_Education.zip](http://www.filefactory.com/file/3jbpgf67gy5t/n/ED413_Part3_Strategic_Planning_in_Engg_Education.zip)

**ED413 Par1 Ethics.zip (9.97MB)**

[http://www.filefactory.com/file/52i13c72ftn9/n/ED413\\_Par1\\_Ethics.zip](http://www.filefactory.com/file/52i13c72ftn9/n/ED413_Par1_Ethics.zip)

**ED413 Part2 New pedagogy , Industrial co-operation & Lifelong learning.zip (11.8MB)**

[http://www.filefactory.com/file/5a6b8xctbulp/n/ED413\\_Part2\\_New\\_pedagogy\\_.\\_Industrial\\_co-operation\\_&\\_Lifelong\\_learning.zip](http://www.filefactory.com/file/5a6b8xctbulp/n/ED413_Part2_New_pedagogy_._Industrial_co-operation_&_Lifelong_learning.zip)

**ED413 Engg Pedagogies PPT.zip (22.36MB)**

[http://www.filefactory.com/file/7kqr7a3ll7it/n/ED413\\_Engg\\_Pedagogies\\_PPT.zip](http://www.filefactory.com/file/7kqr7a3ll7it/n/ED413_Engg_Pedagogies_PPT.zip)

## ENGINEERING EDUCATION RESOURCES DOWNLOAD LINK 2

[www.highlightcomputer.com/dipenggedownload2](http://www.highlightcomputer.com/dipenggedownload2)



### Diploma in Engineering Education Resources

**Engineering Education Unit ED 411** **Click** [HERE](#)

**Engineering Education Unit ED 412** **Click** [HERE](#)

**Engineering Education Unit ED 413 Part 1** **Click** [HERE](#)

**Engineering Education Unit ED 413 Part 2** **Click** [HERE](#)

**Engineering Education Unit ED 413 Part 3** **Click** [HERE](#)

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**ED 203S -4.Learning+Facilitation+Teaching in VET.zip (13.47MB)**

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**ED 205S-Guides for preparing teaching & training portfolios.zip (0.28MB)**

[http://www.filefactory.com/file/6wbht76ud0up/n/ED\\_205S-Guides\\_for\\_preparing\\_teaching\\_&\\_training\\_portfolios.zip](http://www.filefactory.com/file/6wbht76ud0up/n/ED_205S-Guides_for_preparing_teaching_&_training_portfolios.zip)

**ED 206S-. Learning Environment.zip (14.53MB)**

[http://www.filefactory.com/file/7kf9ffq45met/n/ED\\_206S-. Learning\\_Environment.zip](http://www.filefactory.com/file/7kf9ffq45met/n/ED_206S-. Learning_Environment.zip)

**TeachingandLearning(LeadershipTraining).pdf (0.12MB)**

[http://www.filefactory.com/file/1nnceyou98dln/n/TeachingandLearning\(LeadershipTraining\).pdf](http://www.filefactory.com/file/1nnceyou98dln/n/TeachingandLearning(LeadershipTraining).pdf)

## **St Clements Technological University**

### **Bachelor of Education (School& Vocational Education) Course Resources**

**BEd Syllabus.pdf (25.57MB)**

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**Vocatinal\_Education\_Teacher\_Education.pdf (0.23MB)**

[http://www.filefactory.com/file/7dio96wj0fpn/n/Vocatinal\\_Education\\_Teacher\\_Education.pdf](http://www.filefactory.com/file/7dio96wj0fpn/n/Vocatinal_Education_Teacher_Education.pdf)

**ED 101M Theory of Education.zip (23.6MB)**

[http://www.filefactory.com/file/37wny3i62snh/n/ED\\_101M\\_Theory\\_of\\_Education.zip](http://www.filefactory.com/file/37wny3i62snh/n/ED_101M_Theory_of_Education.zip)

**ED 102M Education Technology.zip (8.05MB)**

[http://www.filefactory.com/file/4737kz2hd25v/n/ED\\_102M\\_Education\\_Technology.zip](http://www.filefactory.com/file/4737kz2hd25v/n/ED_102M_Education_Technology.zip)

**ED 103M Teaching Practice.zip (3.43MB)**

[http://www.filefactory.com/file/7j6gcne2vhx/n/ED\\_103M\\_Teaching\\_Practice.zip](http://www.filefactory.com/file/7j6gcne2vhx/n/ED_103M_Teaching_Practice.zip)

**ED 104M Lesson Planning.zip (6.36MB)**

[http://www.filefactory.com/file/1tflgnii2np/n/ED\\_104M\\_Lesson\\_Planning.zip](http://www.filefactory.com/file/1tflgnii2np/n/ED_104M_Lesson_Planning.zip)

**ED 105M Principle of Learning.zip (22.69MB)**

[http://www.filefactory.com/file/42ca0fkc9237/n/ED\\_105M\\_Principle\\_of\\_Learning.zip](http://www.filefactory.com/file/42ca0fkc9237/n/ED_105M_Principle_of_Learning.zip)

**ED 106M Interpreting Curriculums.zip (2.15MB)**

[http://www.filefactory.com/file/3kh03prq42qx/n/ED\\_106M\\_Interpreting\\_Curriculums.zip](http://www.filefactory.com/file/3kh03prq42qx/n/ED_106M_Interpreting_Curriculums.zip)

**ED 106M Reading & Writing to Learn.zip (34.11MB)**

[http://www.filefactory.com/file/iz7lmxlwmq9/n/ED\\_106M\\_Reading\\_&\\_Writing\\_to\\_Learn.zip](http://www.filefactory.com/file/iz7lmxlwmq9/n/ED_106M_Reading_&_Writing_to_Learn.zip)

**ED 107M Teaching & Learning.zip (46.75MB)**

[http://www.filefactory.com/file/631987knookb/n/ED\\_107M\\_Teaching\\_&\\_Learning.zip](http://www.filefactory.com/file/631987knookb/n/ED_107M_Teaching_&_Learning.zip)

**ED 108M Teaching Elementary.zip (12.08MB)**

[http://www.filefactory.com/file/5c6qccz7cucr/n/ED\\_108M\\_Teaching\\_Elementary.zip](http://www.filefactory.com/file/5c6qccz7cucr/n/ED_108M_Teaching_Elementary.zip)

**ED 109M Reading & Writing to Learn.zip (34.11MB)**

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**ED 201M Class Room Mgt & Teaching.zip (6.07MB)**

[http://www.filefactory.com/file/kgrydg3ypwb/n/ED\\_201M\\_Class\\_Room\\_Mgt\\_&\\_Teaching.zip](http://www.filefactory.com/file/kgrydg3ypwb/n/ED_201M_Class_Room_Mgt_&_Teaching.zip)

**ED 202M Curriculum & Design.zip (5.3MB)**

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**ED 203M K-12 Education.zip (3.17MB)**

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**ED 204M School & Vocational Education.zip (26.56MB)**

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**ED 205M Teaching & Measuring.zip (3.79MB)**

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**ED 206M Designing Instructions & Assessment.zip (21.22MB)**

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**ED 207M Teacher Education.zip (9.65MB)**

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**ED 208M Inclusive Teaching.zip (5.39MB)**

[http://www.filefactory.com/file/bn1hae6bi4l/n/ED\\_208M\\_Inclusive\\_Teaching.zip](http://www.filefactory.com/file/bn1hae6bi4l/n/ED_208M_Inclusive_Teaching.zip)

**ED 301M Educational Policy.zip (3.85MB)**

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**ED 302M English Teaching.zip (2.53MB)**

[http://www.filefactory.com/file/2d8pfjzl4qip/n/ED\\_302M\\_English\\_Teaching.zip](http://www.filefactory.com/file/2d8pfjzl4qip/n/ED_302M_English_Teaching.zip)

**ED 303M Humanities Teaching.zip (3.11MB)**

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**ED 304M Maths Teaching.zip (10.03MB)**

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**ED 305M Science Teaching.zip (14.87MB)**

[http://www.filefactory.com/file/5fj9qd094r8l/n/ED\\_305M\\_Science\\_Teaching.zip](http://www.filefactory.com/file/5fj9qd094r8l/n/ED_305M_Science_Teaching.zip)

**ED 306M Technology Teaching.zip (4.63MB)**

[http://www.filefactory.com/file/4s19f6qglmud/n/ED\\_306M\\_Technology\\_Teaching.zip](http://www.filefactory.com/file/4s19f6qglmud/n/ED_306M_Technology_Teaching.zip)

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[http://www.filefactory.com/file/1p17ptf0vnf9/n/ED\\_307M\\_Business\\_Teaching.zip](http://www.filefactory.com/file/1p17ptf0vnf9/n/ED_307M_Business_Teaching.zip)

**ED 308M Computer Supported Learning & Distance Education.zip (44.37MB)**

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**ED 401M Adult Learning Technology.zip (37.55MB)**

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**ED 402M Educational Leadership.zip (14.42MB)**

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**ED 403M School Culture.zip (14.7MB)**

[http://www.filefactory.com/file/crtcalwa6yx/n/ED\\_403M\\_School\\_Culture.zip](http://www.filefactory.com/file/crtcalwa6yx/n/ED_403M_School_Culture.zip)

**ED 404M Educational Research.zip (10.58MB)**

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**ED 405M Training Principle.zip (2.73MB)**

[http://www.filefactory.com/file/l89e26ckyup/n/ED\\_405M\\_Training\\_Principle.zip](http://www.filefactory.com/file/l89e26ckyup/n/ED_405M_Training_Principle.zip)

**ED 406M Educational Policy.zip (9.04MB)**

[http://www.filefactory.com/file/3xbww7cq4z9/n/ED\\_406M\\_Educational\\_Policy.zip](http://www.filefactory.com/file/3xbww7cq4z9/n/ED_406M_Educational_Policy.zip)

**ED 407M Learning Environment.zip (29.11MB)**

[http://www.filefactory.com/file/3t0xpd7mkrl/n/ED\\_407M\\_Learning\\_Environment.zip](http://www.filefactory.com/file/3t0xpd7mkrl/n/ED_407M_Learning_Environment.zip)

**ED 408M Middle & High School Teaching.zip (3.66MB)**

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of Highlight Computer Group

[www.highlightcomputer.com](http://www.highlightcomputer.com)

Affiliated to Singapore Institute of Engineering Technologists & St Clements Technological University of British West Indies

IQY Technical College provides the learning support to the teachers and students of various Technological Universities and Government Technical Colleges of Myanmar.

The followings are online teacher education programs for the teachers of Myanmar Technological Universities & Government Technical Colleges.

The students can access the resources by clicking the link TU  
ONLINE [www.highlightcomputer.com/tuonline.htm](http://www.highlightcomputer.com/tuonline.htm)

### Myanmar Engineering Education Society & Educator Registration

[www.highlightcomputer.com/msee.htm](http://www.highlightcomputer.com/msee.htm)

### Diploma in Engineering Education Training Program

[www.highlightcomputer.com/dipengged1.htm](http://www.highlightcomputer.com/dipengged1.htm)

<https://www.facebook.com/Myanmar-Engineering-Educator-Training-1517035428626975/>

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To enrol Diploma in Engineering Education (Level 1/2/3) , Diploma in Higher Education Teaching+

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Diploma in Engineering Course (Preliminary Level- Certificate in Vocational Education & Training, Level 1- Diploma in Vocation Education& Training,

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2 weeks training course program outline , [Click HERE](#)

School & Vocational Education Initial Two Weeks Basic Teacher Training

Curriculum [Click HERE](#)

Teaching Resources

See the following link

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[Videos](#)

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Teacher Training at Welfare Evolvment and Development Organization

[www.highlightcomputer.com/wedoformyanmar.htm](http://www.highlightcomputer.com/wedoformyanmar.htm)

Engineering Education Two Weeks Training Course Resources

2 weeks training course program outline , [Click HERE](#)

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2 weeks training course Record Worksheets [Click HERE](#)

[www.iqytechnicalcollege.com/PreparationforMyanmarEngineeringCouncilAccreditationCourse.htm](http://www.iqytechnicalcollege.com/PreparationforMyanmarEngineeringCouncilAccreditationCourse.htm)

<http://www.iqytechnicalcollege.com/PreparationforMyanmarEngineeringCouncilAccreditationCourse.pdf>

**TWO WEEKS TRAINING COURSES ACTIVITIES RECORD WEB PAGE**

<http://www.highlightcomputer.com/MESThanlyinTULecture.htm>

## Engineering Education Two Weeks Training Course Class Activities Videos

[www.highlightcomputer.com/gtc2.htm](http://www.highlightcomputer.com/gtc2.htm)

## Engineering Education Two Weeks Training Course Videos

- Day 1 Session 3(1)-Program Objectives  
[http://youtu.be/QikiPNQV\\_30](http://youtu.be/QikiPNQV_30)
- Day 1 Session 3(2)- Learning Outcome  
<http://youtu.be/ZSKScDsBSWg>
- Day 1 Session 3(3)-Engineering Competencies  
<http://youtu.be/DXZ712WVxUA>
- Day 2 Session 2(1)-Competency based education and training  
<http://youtu.be/k0OtStQk7NA>
- Day 2 Session 2(2)-Outcome based education and competency based training  
<http://youtu.be/sqBmP7N1Kms>
- Day 2 Session 2(3)-Assessment Methods  
<http://youtu.be/GvJac8yy-4s>
- Day 2 Session 2(4)-BE course competencies  
<http://youtu.be/TLAsivfd69o>
- Day 2 Session 2(5)-BE Curriculum Objectives & Learning outcomes samples Part 1)  
<http://youtu.be/C02lhMzcO8k>
- Day 2 Session 2(6)- Day 2 Session 2(5)-BE Curriculum Objectives & Learning outcomes samples Part (2)  
<http://youtu.be/iUggt-eG6N4>
- Day 3 Session 1(1) Motivation of adult learning  
<http://youtu.be/fX1E8GBKJKo>
- Day 3 Session 2(2) Course evaluation  
[http://youtu.be/plfr\\_KaAHDQ](http://youtu.be/plfr_KaAHDQ)
- Day 3 Session 1(3)-Experimental Learning  
<http://youtu.be/NxfczPA1J1l>
- Day 3 Session 1(4)-Relating Learning Outcomes to Program Objectives  
<http://youtu.be/cCkgLOkKaKY>
- Day 4 Session 2-General Knowledge related to overseas programs  
<http://youtu.be/qI9IYGpWazM>
- Day 5 Session 1A- Approach to various learning modes in VET  
<http://youtu.be/NVgAAT7Muv0>
- Day 5 Session 2A- Preparing vocational teaching portfolios  
<http://youtu.be/cc-xLKjz3J8>
- Day 6 Session 1A Developing the assessment strategies in VET  
<http://youtu.be/qwNZHPBn6DQ>
- Day 6 Session 2+3 Preparing the sample assessment activities  
[http://youtu.be/-FiehP1Lb\\_E](http://youtu.be/-FiehP1Lb_E)
- Day 7 Session 2+3 Integration of Learning Technology in Teaching & Learning Part 1  
[http://youtu.be/bV\\_CJdY7fs0](http://youtu.be/bV_CJdY7fs0)
- Day 8 Session 1 Technology in Classroom  
<http://youtu.be/rzLQq6D6-OU>
- Day 8 Session 2+3 Integration of Learning Technology in Teaching & Learning Part 2  
<http://youtu.be/Katbr81IPnk>
- Day 9 Session 2+3 Preparing the documents to comply with Myanmar Engineering Council Requirement  
<http://youtu.be/vKGOB9ZBKAU>
- Day 10 Session 1 Learning Environment  
<http://youtu.be/3Lzk27pAOBk>
- Day 10 Session 2-Change Management  
<http://youtu.be/ynkcUcKr8tQ>

## Dr Sam Man Keong's Slides Youtube Videos, Presented by Dr Kyaw Naing

Slide 1-Day 2 Session 3

UK & Singapore PE Assessment Systems

[https://youtu.be/88NnM\\_GGGCI](https://youtu.be/88NnM_GGGCI)

Slide 2-Day 3 Session 2

UK CEng Competencies + Singapore PE Engineering Fundamental & Professional Practice Examinations

[https://youtu.be/\\_29CE4YciAs](https://youtu.be/_29CE4YciAs)

## **POWER POINTS**

### **POWER POINT**

Day1Session3.ppt (0.28MB)

<http://www.mongroupsydney1.com/Day1Session3.ppt>

### **AUDIO**

<http://yourlisten.com/Kyawnaing2524/day-1-session-3>

### **POWER POINT**

Day2Session2.ppt (10.52MB)

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### **AUDIO**

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### **POWER POINT**

Day3Session1.ppt (3.26MB)

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### **AUDIO**

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### **POWER POINT**

Day 4 Session 2

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### **AUDIO**

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### **POWER POINT**

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### **POWER POINT**

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### **AUDIO**

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#### AUDIO

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#### POWER POINT

Day8Session1.ppt (1.15MB)

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#### AUDIO

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#### POWER POINT

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SAMPLE ANSWERS FOR LEVEL 1 & 2 ASSIGNMENTS

[www.highlightcomputer.com/DipEnggEdL1L2SampleAnswers.htm](http://www.highlightcomputer.com/DipEnggEdL1L2SampleAnswers.htm)

ISO Audit Manual

[www.mongroupsydney1.com/22 Aug 2016-ISO Audit Kit Preparation Kit 2016\\_V4Mod.pdf](http://www.mongroupsydney1.com/22%20Aug%202016-ISO%20Audit%20Kit%20Preparation%20Kit%202016_V4Mod.pdf)

ISO 9000 Audit Evidences

[www.highlightcomputer.com/iso9000evidenceguide.htm](http://www.highlightcomputer.com/iso9000evidenceguide.htm)



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**Basic Two Weeks Training Courses Record Videos**  
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[www.highlightcomputer.com/gtc2.htm](http://www.highlightcomputer.com/gtc2.htm)

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**Day 1 Class Videos**

**Day 1 MES Introduction**

[https://youtu.be/JS\\_kAxx4A1A](https://youtu.be/JS_kAxx4A1A)

**Day 1 Introduction**

[https://youtu.be/N\\_AYJrf-Py4](https://youtu.be/N_AYJrf-Py4)

**Day 1 MEngC Rule Dr Thein Gi SDV 0403**

<https://youtu.be/-qa9H7pwzi4>

**Day 1 MEng C Rule Dr Tin Tin Win DV 0404**

<https://youtu.be/KMSQNN5b7tQ>

**Arrangement MAH00550**

<https://youtu.be/cYRGBTYmNFw>

**Day 1 Lecture SDV 0400**

<https://youtu.be/4Ksjsf1kV08>

**Day 1 Lecture SDV 0401**

<https://youtu.be/-Uvg48yPPFs>

**Day 1 Lecture SDV 0402**

<https://youtu.be/1vjpe-UNwOw>

**Day 1 Lecture SDV 0405**

<https://youtu.be/UR6A-Wul370>

**Day 1 Lecture SDV 0408**

<https://youtu.be/8OKXnVnr8ik>

**Day 1 Lecture SDV 0409**

<https://youtu.be/qFgCpAzkLaw>

**Day 1 Lecture SDV 0410**

<https://youtu.be/kyxKXZQS3tk>

**Day 1 Lecture SDV 0411**

<https://youtu.be/YM6tL43vrrl>

**Day 1 Arrangement MAH00549**

<https://youtu.be/TCcQxmyYQgY>

**Day 1 Discussion MAH00548**

<https://youtu.be/Dk3rHHGM-34>

**Day 1 Discussion SDV 0406**

<https://youtu.be/3FKmeC57oLE>

## **Day 1 Interview**

<https://youtu.be/DOcBvzVD1HA>

## **Day 2 Class Videos**

### **Day 2 Lecture SDV 0413**

<https://youtu.be/l6G8E9JEIhI>

### **Day 2 Lecture SDV 0414**

<https://youtu.be/ZicAMfxvRoA>

### **Day 2 Lecture DFCF1058 1063**

<https://youtu.be/Bj1wjgAnaGk>

### **Day 2 Lecture MAH00551**

<https://youtu.be/jUXglgoj1mA>

### **Day 2 Lecture SDV 0412**

<https://youtu.be/O5a52UGnIfA>

### **Day 2 Lecture SDV 0417**

<https://youtu.be/tYpLyuliPU0>

### **Day 2 Lecture SDV 0418**

<https://youtu.be/ByinVHbiWRo>

### **Day 2 Lecture SDV 0419**

[https://youtu.be/v\\_aTVA7nnoM](https://youtu.be/v_aTVA7nnoM)

### **Day 2 Lecture SDV 0420**

<https://youtu.be/pZr3a8Wcpml>

### **Day 2 Lecture SDV 0423**

<https://youtu.be/wsnU1v8j3QQ>

### **Day 2 Lecture SDV 0425**

<https://youtu.be/jAfAw8YlasA>

### **Day 2 Lecture Dr Charlie Than SDV 0426**

<https://youtu.be/qU8iNSiuOVE>

### **Day 2 Lecture Dr Charlie SDV 0427**

<https://youtu.be/2Jj5nTDkSus>

### **Day 2 Lecture Dr Charlie SDV 0429**

<https://youtu.be/poDnFVaauaU>

### **Day 2 Lecture Dr Charlie SDV 0430**

[https://youtu.be/zMu1\\_bxHXvc](https://youtu.be/zMu1_bxHXvc)

### **Day 2 Lecture Dr Charlie SDV 0431**

<https://youtu.be/N4dgdGU3sNU>

### **Day 2 Lecture Dr Charlie SDV 0432**

<https://youtu.be/aIZ2ZFcEL6g>

### **Day 2 Lecture Dr Charlie SDV 0433**

<https://youtu.be/G7FDuU5Y43Q>

## **Day 2 Lecture Dr Charlie SDV 0434**

<https://youtu.be/Pz7Y89KSxS8>

## **Day 2 Lecture Dr Charlie SDV 0428**

<https://youtu.be/FwGX8x2DBwI>

## **Day 2 Discussion SDV 0415**

<https://youtu.be/6u06eEHWKXA>

## **Day 2 Discussion SDV 0416**

<https://youtu.be/Wie-iUr7BSY>

## **Day 2 Discussion SDV 0421**

<https://youtu.be/JDW4jTU18zM>

## **Day 2 Discussion SDV 0422**

[https://youtu.be/nuM7Z\\_fW4YQ](https://youtu.be/nuM7Z_fW4YQ)

## **Day 2 Discussion SDV 0424**

<https://youtu.be/lkaqxYIUw5I>

## **Day 2 Discussion SDV 0435**

<https://youtu.be/GWyh1mxrUzQ>

## **Day 2 Discussion SDV 0437**

<https://youtu.be/k5B986DmCcE>

## **Day 3 Class Videos**

### **Day 3 Lecture SDV 0438**

<https://youtu.be/bsflpCTpBwM>

### **Day 3 Lecture SDV 0439**

<https://youtu.be/dBRHclmp5Xk>

### **Day 3 Lecture SDV 0440**

<https://youtu.be/mgmWs15IR-4>

### **Day 3 Lecture SDV 0441**

<https://youtu.be/tPROPRspx4o>

### **Day 3 Lecture SDV 0443**

<https://youtu.be/WDaOYuQMJUA>

### **Day 3 Lecture SDV 0444**

[https://youtu.be/edZuFG\\_gtjc](https://youtu.be/edZuFG_gtjc)

### **Day 3 Lecture SDV 0445**

<https://youtu.be/CXI5Js6ASsl>

### **Day 3 Lecture SDV 0447**

<https://youtu.be/XplyUtrb5KY>

### **Day 3 Discussion SDV 0449**

<https://youtu.be/m0V1mtmi0qM>

### **Day 3 Discussion SDV 0442**

<https://youtu.be/Gmolo0Dt2c0>

**Day 3 Discussion SDV 0446**

[https://youtu.be/uo\\_\\_4AbRa\\_g](https://youtu.be/uo__4AbRa_g)

**Day 3 Discussion SDV 0448**

[https://youtu.be/c\\_V7gnTbmzA](https://youtu.be/c_V7gnTbmzA)

**Day 3 Discussion SDV 0450**

<https://youtu.be/q8Yw1zXe3vg>

**Day 4 Class Videos****Day 4 Lecture SDV 0465**

<https://youtu.be/XbTY2dquaAQ>

**Day 4 Lecture Dr Charlie SDV 0466**

[https://youtu.be/XS\\_olC2it6l](https://youtu.be/XS_olC2it6l)

**Day 4 Discussion DSCF1311 1336**

[https://youtu.be/2J2mAy\\_PyXk](https://youtu.be/2J2mAy_PyXk)

**Day 4 Discussion SDV 0467**

<https://youtu.be/2M0E1IBR35M>

**Day 4 Discussion SDV 0468**

<https://youtu.be/Esew-L2BxDU>

**Day 4 Discussion SDV 0469**

<https://youtu.be/DniCfj-qecU>

**Day 5 Class Videos****Day 5 Lecture SDV 0474**

<https://youtu.be/hUGdonT5rto>

**Day 5 Lecture SDV 0475**

<https://youtu.be/imEAmOVbWm8>

**Day 5 Lecture SDV 0476**

<https://youtu.be/b-58bT4QgxU>

**Day 5 Lecture SDV 0477**

[https://youtu.be/W1g\\_eQQD0sQ](https://youtu.be/W1g_eQQD0sQ)

**Day 5 Lecture SDV 0479**

<https://youtu.be/DbndkHUmWKU>

**Day 5 Lecture SDV 0481**

<https://youtu.be/rSICqyLWPJ0>

**Day 5 Lecture SDV 0486**

<https://youtu.be/GXF5fOZL3-U>

**Day 5 Discussion SDV 0480**

<https://youtu.be/lu6mCp4sWB4>

**Day 5 Discussion SDV 0482**

<https://youtu.be/VaagljypVpg>

**Day 5 Discussion SDV 0483**

<https://youtu.be/oSPoCGs26d4>

**Day 5 Discussion SDV 0484**

[https://youtu.be/JnFUD\\_VI0yg](https://youtu.be/JnFUD_VI0yg)

**Day 5 Discussion SDV 0485**

<https://youtu.be/WWF3JqGSDfo>

**Day 6 Class Videos****Day 6 Lecture SDV 0488**

<https://youtu.be/QgnBm4scWbw>

**Day 6 Lecture SDV 0490**

<https://youtu.be/C-e5sZVqqrS>

**Day 6 Lecture SDV 0491**

<https://youtu.be/rqOV0HQhHOQ>

**Day 6 Lecture SDV 0492**

<https://youtu.be/PKt7pFZYWRg>

**Day 6 Lecture SDV 0493**

<https://youtu.be/0necslPn4-A>

**Day 6 Lecture SDV 0494**

<https://youtu.be/F5tzaiC34lw>

**Day 6 Lecture SDV 0495**

[https://youtu.be/\\_lig7AQZ8\\_U](https://youtu.be/_lig7AQZ8_U)

**Day 6 Lecture SDV 0496**

<https://youtu.be/ahd3f6kQUKM>

**Day 6 Lecture SDV 0499**

<https://youtu.be/4lz11KBR75E>

**Day 6 Lecture SDV 0500**

<https://youtu.be/t0sMkX3Tq-U>

Day 6 Lecture Dr Charlie SDV 0497

[https://youtu.be/\\_nmqd0Bf-IE](https://youtu.be/_nmqd0Bf-IE)

**Day 6 Lecture Dr Charlie SDV 0498**

<https://youtu.be/c4gOEL6a39c>

**Day 6 Discussion SDV 0489**

<https://youtu.be/vUAFsQAo7wM>

**Day 6 Discussion SDV 0501**

<https://youtu.be/ijpF6cP20yl>

**Day 7 Class Videos****Day 7 Lecture SDV 0502**

[https://youtu.be/b\\_oS7lxYWxl](https://youtu.be/b_oS7lxYWxl)

**Day 7 Lecture SDV 0503**

<https://youtu.be/GShsGfZaZs8>

**Day 7 Lecture SDV 0504**

<https://youtu.be/rBs8plAxczE>

**Day 7 Lecture SDV 0505**

<https://youtu.be/5S6OtmT2Ks4>

**Day 7 Lecture SDV 0506**

<https://youtu.be/KORFPrK8YCI>

**Day 7 Lecture SDV 0507**

<https://youtu.be/xNMAN6dZ20o>

**Day 7 Lecture SDV 0509**

<https://youtu.be/Ar8CDIR2yd4>

**Day 7 Lecture SDV 0518**

<https://youtu.be/we6YDKCyLVY>

**Day 7 Lecture SDV 0519**

[https://youtu.be/hDATzwy\\_c\\_Yk](https://youtu.be/hDATzwy_c_Yk)

**Day 7 Lecture DSCF1469 1527**

[https://youtu.be/z2N9NA-\\_bFs](https://youtu.be/z2N9NA-_bFs)

**Day 7 Lecture Dr Charlie SDV 0510**

<https://youtu.be/eEXvcu7c50M>

**Day 7 Lecture Dr Charlie SDV 0511**

<https://youtu.be/b0WUdFhoCOY>

**Day 7 Lecture Dr Charlie SDV 0512**

<https://youtu.be/PYBazd72p44>

**Day 7 Discussion SDV 0508**

<https://youtu.be/9kfsmmZ0URE>

**Day 7 Discussion SDV 0513**

<https://youtu.be/Ly68prc44EM>

**Day 7 Discussion SDV 0514**

<https://youtu.be/ml6ilUcodrU>

**Day 7 Discussion SDV 0515**

<https://youtu.be/CPkFAEG2XMo>

**Day 7 Discussion SDV 0516**

<https://youtu.be/ppuYPeuSN2o>

**Day 7 Discussion SDV 0517**

<https://youtu.be/T-NElvwzHtA>

**Day 8 Class Videos**

**Day 8 Discussion SDV 0526**

[https://youtu.be/eg9NZGU\\_pZE](https://youtu.be/eg9NZGU_pZE)

**Day 8 Discussion SDV 0527**

<https://youtu.be/yVVfWhSH5js>

**Day 8 Discussion SDV 0530**

<https://youtu.be/HABGaUoOBac>

**Day 8 Discussion SDV 0532**

<https://youtu.be/VnblBrXJmqk>

**Day 8 Lecture SDV 0531**

<https://youtu.be/VMO6lg0DZ9E>

**Day 8 Lecture U Myint Soe SDV 0524**

<https://youtu.be/s5ZK9geHi2E>

**Day 8 Lecture SDV 0520**

<https://youtu.be/0i4YYMduO5A>

**Day 8 Lecture SDV 0521**

<https://youtu.be/Gl5ZU3d1Li8>

**Day 8 Lecture SDV 0522**

<https://youtu.be/c0D4oMLEUok>

**Day 8 Lecture SDV 0523**

<https://youtu.be/g0OsRuvsNuo>

**Day 8 Lecture SDV 0528**

<https://youtu.be/n80qRILRYHU>

**Day 8 Lecture SDV 0529**

<https://youtu.be/iNU4QcBfZ6g>

**Day 8 Lecture U Myint Soe SDV 0525**

<https://youtu.be/BxqcB2XrYIk>

**Day 9 Class Videos**

**Day 9 Lecture Hla Myat Mon SDV 0533**

<https://youtu.be/tM5m1ona5mM>

**Day 9 Lecture Hla Myat Mon SDV 0534**

<https://youtu.be/XJxIRQr9qRA>

**Day 9 Lecture Hla Myat Mon SDV 0535**

<https://youtu.be/oQm5OG5dhMw>

**Day 9 Lecture Hla Myat Mon SDV 0536**

<https://youtu.be/gmsXs5EbJtg>

**Day 9 Lecture HSDV 0540**

<https://youtu.be/cNOOitjTng>

**Day 9 Lecture SDV 0537**

[https://youtu.be/L5psrUG\\_YXs](https://youtu.be/L5psrUG_YXs)

**Day 9 Lecture SDV 0538**

<https://youtu.be/eqVWJ0JkO7c>

**Day 9 Lecture SDV 0539**

<https://youtu.be/tJOa7vSuJVE>

**Day 10 Class Videos**

**Day 10 Discussion SDV 0544**

<https://youtu.be/8dpaAcRRsc0>

**Day 10 Discussion SDV 0545**

<https://youtu.be/jlVFKXORay8>

**Day 10 Discussion SDV 0546**

<https://youtu.be/Nbis5P5IQUI>

**Day 10 Discussion SDV 0547**

<https://youtu.be/xPjBYLJK6eE>

**Day 10 Discussion SDV 0548**

<https://youtu.be/aUNu-vjPkNA>

**Day 10 Discussion SDV 0549**

<https://youtu.be/iVgJknjQxK8>

**Day 10 Discussion SDV 0551**

<https://youtu.be/wqwp4c7iAR4>

**Day 10 Lecture SDV 0541**

[https://youtu.be/v\\_EzOg\\_lrqk](https://youtu.be/v_EzOg_lrqk)

**Day 10 Lecture SDV 0542**

<https://youtu.be/i7qf2dnPx1I>

**Day 10 Lecture SDV 0543**

<https://youtu.be/PYI7mfFM4o0>

**Day 10 Lecture SDV 0552**

<https://youtu.be/68gvV-3A2kl>

**Day 10 Lecture SDV 0553**

[https://youtu.be/cQypd\\_1hSZM](https://youtu.be/cQypd_1hSZM)

**Day 10 Lecture SDV 0554**

<https://youtu.be/qHm7nluz5Ao>

**Day 10 Lecture SDV 0550**

<https://youtu.be/mSJaiGu6INU>

**Day 11**

**Day 11 Discussion SDV 0562**

<https://youtu.be/Oo7XwLLAvBU>

**Day 11 Lecture SDV 0555**

<https://youtu.be/8VWQ4zeEKnY>

**Day 11 Lecture SDV 0556**

<https://youtu.be/7CUBcanHplg>

**Day 11 Lecture SDV 0557**

<https://youtu.be/P9JRYmkvME8>

**Day 11 Lecture SDV 0558**

<https://youtu.be/asiPkJJTrTo>

**Day 11 Lecture SDV 0560**

<https://youtu.be/WYkzazgRhtI>

**Day 12**

**Day 12 Training Conclusion SDV 0563**



<https://youtu.be/dU-8fGyMynQ>

**Day 12 Training Conclusion SDV 0564**

<https://youtu.be/eBX1ckmOx-8>

**Day 11 Training ConclusionSDV 0565**

<https://youtu.be/LwO65h1UZCc>

# ISO 9000 Audit Documents Preparation for Technological Universities & Government Technical Colleges

By Dr Kyaw Naing MIEAust, RPEQ, FSIET

[www.highlightcomputer.com/iso9000evidenceguide.htm](http://www.highlightcomputer.com/iso9000evidenceguide.htm)

## (1) ISO Audit

## (2) Curriculum Review for accreditation

### ISO 9000 Audit Manual

[www.mongroupsyzdney1.com/22 Aug 2016-ISO\\_Audit\\_Kit\\_Preparation\\_Kit\\_2016\\_V4Mod.pdf](http://www.mongroupsyzdney1.com/22%20Aug%202016-ISO_Audit_Kit_Preparation_Kit_2016_V4Mod.pdf)

ISO 9000 Audit Documents for Technological Universities & Government Technical Colleges are presented in this webpage. The teachers and head of departments can refer the example documents which are presented in the online links.

2 weeks accreditation training records and lessons/ audio/ video/ reference resources can also be obtained from the following link  
[www.highlightcomputer.com/gtc.htm](http://www.highlightcomputer.com/gtc.htm)

- Most of the requirements are to be met by filling the relevant forms in the links. But for some requirements need to be fulfilled by doing the tasks outlined in the notes.

ISO-9000 Audit Criteria	Required Documents	Example
4 Quality Management System 4.1-General requirements	Intranet PaCK  Policies and procedures  Organisational information  Core process maps	Write the overview information of your TU Examples- YTU-- Historical Background <a href="http://ytu.edu.mm/?page_id=10">http://ytu.edu.mm/?page_id=10</a> Vision & Mission <a href="http://ytu.edu.mm/?page_id=1180">http://ytu.edu.mm/?page_id=1180</a> Steering Committee <a href="http://ytu.edu.mm/?page_id=441">http://ytu.edu.mm/?page_id=441</a> Organizational Structure <a href="http://ytu.edu.mm/?page_id=440">http://ytu.edu.mm/?page_id=440</a>

<p>4.2 Documentation</p>	<p>Induction checklist for new staff</p> <p>Roll books</p> <p>Course Information books</p> <p>Syllabus (Train.gov.au)</p> <p>Guideline for roll books / ebs</p> <p>Student Resource Package</p> <p>Student Work Evidence Books</p>	<p>The departments heads need to write the introduction procedures for new teachers</p> <p>Rollbooks., Attendance Records</p> <p>Course Information Example  <a href="http://www.highlightcomputer.com/BECurriculum.htm">http://www.highlightcomputer.com/BECurriculum.htm</a></p> <p>How to keep the roll-books</p> <p>List of practical equipments. Their location, List of text books. Library resources list. List of computing equipments etc.</p> <p>Example- Physical Resources  <a href="http://www.highlightcomputer.com/Equipment_resource_list_template_2Nov15.docx">www.highlightcomputer.com/Equipment_resource_list_template_2Nov15.docx</a></p> <p><u>Engineering Resources</u>  <a href="http://www.highlightcomputer.com/elib.htm">http://www.highlightcomputer.com/elib.htm</a></p> <p>Library  <a href="http://www.highlightcomputer.com/usb.htm">http://www.highlightcomputer.com/usb.htm</a></p> <p>Support  <a href="http://www.highlightcomputer.com/pesupport.htm">http://www.highlightcomputer.com/pesupport.htm</a></p> <p>The department heads need to keep the bench mark evidences of the students' works such as sample answer/ laboratory reports/ design project presentations etc.</p>
<p>4.2.2 Control of records 4.2.3 Control of documents</p>	<p>TRIM files</p> <p>Version control – local</p> <p>Gazettes</p> <p>DEC site</p> <p>Train.gov.au</p>	<p>Training Report, Information Management</p> <p>The documents in the following list should be collected.  <a href="http://www.mongroupsdney1.com/recordsheet1.htm#a">http://www.mongroupsdney1.com/recordsheet1.htm#a</a></p> <p>Curriculum documents should be marked with Version &amp; date of production and modification</p> <p>Ministry of Education/ Department of Technical Education Circular &amp; Gazettes should be digitized and collected.</p> <p>Collection of Ministry of Education Websites/ TU websites etc should be collected  <a href="http://www.highlightcomputer.com/tu.htm">www.highlightcomputer.com/tu.htm</a></p>
<p>5.1 Management responsibility and commitment</p>	<p>Institute Director's Minutes</p> <p>College communication and meetings</p> <p>Communication of legislative requirements</p> <p>Training requirements are included in the business plan and within budget allocations</p>	<p>Order issued by the rector/ head of departments should be recorded.</p> <p>Meeting records should be collected.</p> <p>Myanmar Ministry of Education Education Laws/ Regulations should be collected.</p> <p>Example  YTU Research <a href="http://ytu.edu.mm/?page_id=1200">http://ytu.edu.mm/?page_id=1200</a>  YTU Seminars Conference Workshop <a href="http://ytu.edu.mm/?cat=12">http://ytu.edu.mm/?cat=12</a>  Facebook events pages should be photographed &amp; accumulated</p> <p>Budget requirements and approval procedures should be recorded.</p>

5.2 Customer focus	<p>Education and Training Plans</p> <p>Training and Assessment Strategy</p>	<p>See the following record sheets</p> <p><a href="#">Student Assessment Guide/</a>  <a href="http://www.mongroupsydney1.com/StudentAssessmentGuide.pdf">www.mongroupsydney1.com/StudentAssessmentGuide.pdf</a></p> <p><a href="#">Assessment Mapping</a>  <a href="http://www.mongroupsydney1.com/AssessmentMapping.pdf">www.mongroupsydney1.com/AssessmentMapping.pdf</a></p> <p><a href="#">Assessment Cover Sheet</a>  <a href="http://www.mongroupsydney1.com/AssessmentCoverSheet.pdf">www.mongroupsydney1.com/AssessmentCoverSheet.pdf</a></p> <p><a href="#">Assesment Feedback Sheet</a>  <a href="http://www.mongroupsydney1.com/AssessmentFeedbackSheet.pdf">www.mongroupsydney1.com/AssessmentFeedbackSheet.pdf</a></p> <p><a href="#">Assessment Validation Documents</a>  <a href="http://www.mongroupsydney1.com/RPLValidation.pdf">www.mongroupsydney1.com/RPLValidation.pdf</a></p>
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5.3 Quality policy	<p>Quality improvements embedded in plans</p> <p>TAFE NSW Quality Policy</p>	<p>Examination procedure/ Moderation policy/ Pass or fail policies / Curriculum review policies should be presented.</p> <p><b>Two Weeks Training Course Activity Record Sheets</b></p> <p><a href="#">Day 1 Session 3-Course Objective Outline.pdf (2.42MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day1Session3CourseObjectiveOutline.pdf">www.mongroupsydney1.com/Day1Session3CourseObjectiveOutline.pdf</a></p> <p><a href="#">Day 3 Session 3-Delivery &amp; Assessment Strategy.pdf (5.73MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day3Session3DeliveryAssessmentStrategy.pdf">www.mongroupsydney1.com/Day3Session3DeliveryAssessmentStrategy.pdf</a></p> <p><a href="#">Day 4 Session 3-Assessment Strategy 1.pdf (3.84MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day4Session3AssessmentStrategy1.pdf">www.mongroupsydney1.com/Day4Session3AssessmentStrategy1.pdf</a></p> <p><a href="#">Day 4 Session 3-Assessment Strategy 2.pdf (5.15MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day4Session3AssessmentStrategy2.pdf">www.mongroupsydney1.com/Day4Session3AssessmentStrategy2.pdf</a></p> <p><a href="#">Day 5 Session 3-Workplace Training.pdf (3.45MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day5Session3WorkplaceTraining.pdf">www.mongroupsydney1.com/Day5Session3WorkplaceTraining.pdf</a></p> <p><a href="#">Day 5 Session 3-Industrial Consultation.pdf (4.1MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day5Session3IndustrialConsultation.pdf">www.mongroupsydney1.com/Day5Session3IndustrialConsultation.pdf</a></p> <p><a href="#">Day 6 Session 3-Validation &amp; Review.pdf (1.64MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day6Session3ValidationReview.pdf">www.mongroupsydney1.com/Day6Session3ValidationReview.pdf</a></p> <p><a href="#">Day 7 Session 3-Online Teaching.pdf (3.08MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day7Session3OnlineTeaching.pdf">www.mongroupsydney1.com/Day7Session3OnlineTeaching.pdf</a></p> <p><a href="#">Day 8 Session 3-Project.pdf (4.92MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day8Session3Project.pdf">www.mongroupsydney1.com/Day8Session3Project.pdf</a></p> <p><a href="#">Day 9 Session 3-Overall Review.pdf (1.47MB)</a></p> <p><a href="http://www.mongroupsydney1.com/Day9Session3OverallReview.pdf">www.mongroupsydney1.com/Day9Session3OverallReview.pdf</a></p> <p><a href="#">General Reference-Attachment 2a.pdf (4.09MB)</a></p> <p><a href="http://www.mongroupsydney1.com/GeneralReferenceAttachment2a.pdf">www.mongroupsydney1.com/GeneralReferenceAttachment2a.pdf</a></p> <p><a href="#">General ReferenceAttachment 2b.pdf (3.29MB)</a></p> <p><a href="http://www.mongroupsydney1.com/GeneralReferenceAttachment2b.pdf">www.mongroupsydney1.com/GeneralReferenceAttachment2b.pdf</a></p>
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5.4 Planning and Objectives	<p>I Plan</p> <p>Timetable</p> <p>Profile meeting</p> <p>Course planning sessions</p> <p>Timetable preparation</p> <p>Section Business Plan</p> <p>Learning and Assessment Strategy</p> <p>Core process business maps</p> <p>Institute Annual Plan &amp; reporting</p> <p>Strategic Directions 2015 or successor</p>	<p>Academic Plan <a href="http://ytu.edu.mm/?page_id=20">http://ytu.edu.mm/?page_id=20</a> Records of the timetables used in every semesters</p> <p>Meeting records related to timetabling</p> <p>Records of course planning sessions</p> <p>Records of the timetables used in every semesters</p> <p>Section/ departments budget plan and records</p> <p><a href="#">Day 4 Session 3-Assessment Strategy 1.pdf (3.84MB)</a> <a href="http://www.mongroupsychney1.com/Day4Session3AssessmentStrategy1.pdf">www.mongroupsychney1.com/Day4Session3AssessmentStrategy1.pdf</a> <a href="#">Day 4 Session 3-Assessment Strategy 2.pdf (5.15MB)</a> <a href="http://www.mongroupsychney1.com/Day4Session3AssessmentStrategy2.pdf">www.mongroupsychney1.com/Day4Session3AssessmentStrategy2.pdf</a></p> <p>Academic Plan <a href="http://ytu.edu.mm/?page_id=20">http://ytu.edu.mm/?page_id=20</a></p> <p>Annual reports</p> <p>Strategic plans such as how to co-operate with other organizations/ How to set the targets/ milestones etc</p>
5.5 Responsibility, authority and communication	<p>Organisation charts</p> <p>Delegations manual</p> <p>Executive, College /Faculty Team, meetings and outcomes</p> <p>Internal communication</p>	<p>Organizational Structure <a href="http://ytu.edu.mm/?page_id=440">http://ytu.edu.mm/?page_id=440</a> Protocol &amp; procedures related to selection of students/ staff/ policies on use of resources/ use of funds etc Team meeting records</p> <p>Decisions/ Review/ Implementation records</p> <p>International communication records/ circulars/ orders/ change plans etc</p>

<p>5.6 Management review</p>	<p>Actions from SIE meetings</p> <p>Outcomes from internal and external audits</p> <p>Institute quarterly performance reviews</p> <p>Information on the Intranet</p> <p>Institute Director's Minutes</p>	<p>Senior staff meeting records</p> <p>Records of audits</p> <p>Performance reviews on targeted students enrolment VS actual enrolments</p> <p>Targeted incomes VS Actual income</p> <p>Targeted expenses VS Actual expenses</p> <p>Variance analysis</p> <p>Saving plan</p> <p>Targeted pass rates of the students VS actual records</p> <p>How to correct the variances</p> <p>Online information</p> <p>Minutes written by the rectors</p>
<p>6.0 Resource management</p>	<p>Roll books / ebs completed showing attendance and assessment records.</p> <p>Roll books / ebs (signed / approved) by head teacher</p> <p>Assessment record summaries/ completed module planning sheet</p> <p>Student acknowledgement of assessment guide</p> <p>Panel assessment sheets</p> <p>Roll books containing attendance sheets, assessment guideline and course brief.</p> <p>Weekly staff meetings</p> <p>Panel assessment used to validate assessment tools against learning outcomes</p>	<p>Rollbooks/ Students attendance records filled by teachers and signed by the heads of departments</p> <p>Annual record of students pass or fail rates</p> <p><a href="#">Assesment Feedback Sheet</a> <a href="http://www.mongroupsydney1.com/AssessmentFeedbackSheet.pdf">www.mongroupsydney1.com/AssessmentFeedbackSheet.pdf</a></p> <p><a href="#">Assessment Validation Documents</a> <a href="http://www.mongroupsydney1.com/RPLValidation.pdf">www.mongroupsydney1.com/RPLValidation.pdf</a></p> <p>Rollbooks/ Students attendance records <a href="#">Student Assessment Guide/</a> <a href="http://www.mongroupsydney1.com/StudentAssessmentGuide.pdf">www.mongroupsydney1.com/StudentAssessmentGuide.pdf</a></p> <p>Staff meeting records</p> <p>Panel review on assessment maps used by subject teachers <a href="#">Assessment Mapping</a> <a href="http://www.mongroupsydney1.com/AssessmentMapping.pdf">www.mongroupsydney1.com/AssessmentMapping.pdf</a></p> <p><a href="#">Assessment Validation Documents</a> <a href="http://www.mongroupsydney1.com/RPLValidation.pdf">www.mongroupsydney1.com/RPLValidation.pdf</a></p> <p>Syllabus <a href="http://www.highlightcomputer.com/ttucurriculum.htm">www.highlightcomputer.com/ttucurriculum.htm</a></p> <p><a href="#">Assessment Mapping</a> <a href="http://www.mongroupsydney1.com/AssessmentMapping.pdf">www.mongroupsydney1.com/AssessmentMapping.pdf</a></p> <p><a href="#">Sessions Plan</a> <a href="http://www.hightcomputer.com/Session_Plan_template_v2_300913-15.doc">www.hightcomputer.com/Session_Plan_template_v2_300913-15.doc</a></p> <p>Program outlines <a href="http://www.highlightcomputer.com/ttucurriculum.htm">www.highlightcomputer.com/ttucurriculum.htm</a></p> <p>Example programs <a href="http://www.highlightcomputer.com/curriculum.htm">http://www.highlightcomputer.com/curriculum.htm</a></p> <p>Rollbooks audited by heads of departments</p>

Syllabus printouts	Changing the curriculum contents to meet the technology change.
Lesson Plans	& record of the adjustments in changing of assessment systems. Records of exam questions <b>Assessment Mapping</b> <a href="http://www.mongroupsytdney1.com/AssessmentMapping.pdf">www.mongroupsytdney1.com/AssessmentMapping.pdf</a> <b>Assessment Validation Documents</b> <a href="http://www.mongroupsytdney1.com/RPLValidation.pdf">www.mongroupsytdney1.com/RPLValidation.pdf</a>
Course program	<a href="http://www.hightcomputer.com/Session_Plan_template_v2_300913-15.doc">www.hightcomputer.com/Session_Plan_template_v2_300913-15.doc</a>  Every semester, the exam questions should be changed and collect the records of changes.  Departmental heads need to record the changes & provide the guidances/ upervisions. Such thing should be written in diaries and the entries of the changes diaries should be provided to the respective professors/ rectors.
Roll Books / ebs student records completed according to requirements and audited by Head Teacher.	
Assessment validation in progress (mapping new TP requirements)	
Calibration of measuring equipment every 6 months.	
Internal control checklists	



7 Product realisation	Curriculum   Educational planning   Teaching and Assessment strategy   Quality assurance   Assessment results and records	Thanlyin TU <a href="http://www.highlightcomputer.com/ttucurriculum.htm">www.highlightcomputer.com/ttucurriculum.htm</a>  Sample of units/ subjects/ cost/ curriculms units planning sheet  <a href="http://www.highlightcomputer.com/course%20management%20sheet%20v17.5%202016programs.xlsm">www.highlightcomputer.com/course management sheet v17.5 2016programs.xlsm</a> <a href="http://www.highlightcomputer.com/timetable%20unit%20allocations%2010.xlsx">www.highlightcomputer.com/timetable unit allocations 10.xlsx</a> Assessment Mapping <a href="http://www.mongroupsychdney1.com/AssessmentMapping.pdf">www.mongroupsychdney1.com/AssessmentMapping.pdf</a>  Records of Assessment Validation Documents <a href="http://www.mongroupsychdney1.com/RPLValidation.pdf">www.mongroupsychdney1.com/RPLValidation.pdf</a> Examination records
7.2 Customer requirements	Attendance at industry forums  Annual visit to employer base  Employer feedback to teachers during term  Suppliers providing new technologies  Student feedback during class  Industry presentation night  Annual employer visits  Teacher contact with employers.	Industrial consultation Record <a href="#">Day 5 Session 3-Industrial Consultation.pdf (4.1MB)</a> <a href="http://www.mongroupsychdney1.com/Day5Session3IndustrialConsultation.pdf">www.mongroupsychdney1.com/Day5Session3IndustrialConsultation.pdf</a>  Records of employers feedback  Record of industrial suppliers/ their presentations/ collections of catalogues  Students feedback record  Annual events/ Facebook screenshots on events collections  Industrial consultation Record by individual teachers <a href="#">Day 5 Session 3-Industrial Consultation.pdf (4.1MB)</a> <a href="http://www.mongroupsychdney1.com/Day5Session3IndustrialConsultation.pdf">www.mongroupsychdney1.com/Day5Session3IndustrialConsultation.pdf</a>

7.2 Customer Requirements	Reasonable adjustment  ABE / Learner support  Access and equity RPL  Customer communication  Customer feedback and complaints  Course information and enquiries  Training and assessment strategy	Tutorial classes plan  Language/ Literacy/ Numeracy support/ Credit transfer arrangement  Students service customers contact/ service records  Students feedback & complaint including collections of facebook posts by the students  Course advertisement records in various media including facebook  Students training records for each intake groups <a href="http://www.highlightcomputer.com/trainingplan62111.doc">www.highlightcomputer.com/trainingplan62111.doc</a>
7.2.3 Customer Communication and Feedback	Course information    internet  School careers days  Enrolment day/ student questionnaire to assess need  Handbook  Assessment of student portfolio and interview prior to enrolment.  Student feedback during class and attendance  Student survey forms used to collect formal feedback.  Student feedback and employer feedback.	Course objective <a href="http://www.highlightcomputer.com/objectives.htm">http://www.highlightcomputer.com/objectives.htm</a> Detailed Contents <a href="http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm">http://highlightcomputer.com/B%20E+B%20App%20Sc(IT)+B%20Bus%20Course%20Detailed%20Contents.htm</a>  Internet information of TUs <a href="http://www.highlightcomputer.com/tu.htm">www.highlightcomputer.com/tu.htm</a>  Students questions/ enrolment day records  Student handbooks  Selection process records  Records of individual teachers regarding the students' response / feedback during the sessions  Students survey results  Students' post in facebook/ formal feedbacks
7.3 Design and development	Evidence of industry demand and involvement in training plans, courses and assessment	<a href="#">Day 5 Session 3-Industrial Consultation.pdf (4.1MB)</a>  <a href="http://www.mongroupsydney1.com/Day5Session3IndustrialConsultation.pdf">www.mongroupsydney1.com/Day5Session3IndustrialConsultation.pdf</a>

7.4 Purchasing	Processes  Suppliers  On contract  Procurement policies and procedures  FEAPs	Record of purchase of educational resources. Expenses/ supplier records, catalogues/ tenders records  Records of tender contracts  Tender assessment/ approval procedure
7.5 Production and service provision	Course information      Equipment work instructions/SOPs – WH&S      Monitoring and measuring devices   Customer satisfaction surveys   Assessment validation	Course information sheets Example <a href="http://www.highlightcomputer.com/Program_Enrolment.htm">http://www.highlightcomputer.com/Program_Enrolment.htm</a>  Risk assessment sheets/ incident reports <a href="http://www.highlightcomputer.com/HazardOrIncidentReportForm2015.01.20.doc">www.highlightcomputer.com/HazardOrIncidentReportForm2015.01.20.doc</a> Risk assessment for each subject must be performed <a href="http://www.highlightcomputer.com/Assessment_Validation_Risk_Matrix_v7.xlsx">www.highlightcomputer.com/Assessment_Validation_Risk_Matrix_v7.xlsx</a>  Students/ Employer/ Parents’ survey results must be maintained. Assessment Observation Check List <a href="http://www.highlightcomputer.com/Assessment_Observation_Checklist_v12.docx">www.highlightcomputer.com/Assessment_Observation_Checklist_v12.docx</a>  Records of Assessment Validation Documents <a href="http://www.mongroupsdney1.com/RPLValidation.pdf">www.mongroupsdney1.com/RPLValidation.pdf</a>
8 Measurement, analysis and improvement	Budget reports  Student assessment results   Student contact with Head Teacher   Lesson Plans vetted by Head Teacher/supervision of staff   Informal student feedback   Completion rates  Ebs student monitoring & results   Section meetings  Faculty meetings	Annual budget reports by administration  Annual students examination results collections/ List of graduates  When the students see head of departments, the records should be maintained  Head of departments should regularly inspect the lessons plans of teachers and provide the feedback. Such feedbacks should be recorded.  Head departments should write the diary for their informal chatting with the students  List of the graduates must be collected.  If online system is applied to record the students results, relevant data must be maintained.  Records of section/ department/ the whole institution meeting including facebook records should be collected.

8.1-8.4 Measurement, analysis and improvement	Customer satisfaction and feedback	Students' survey record  Internal audit records are to be maintained
	Internal audit	Individual subject completion records are to be maintained
	Unit/Module completion rates	Any supplementary test results are to be maintained.
	Re-assessments	Students performance records in each questions must be collected by each teacher and head of departments need to maintain such records
	Performance data	Depending on changing needs of industry, availability of resources, students' demands, the curriculum review process should be recorded. When the curriculums are changed, the records must be maintained. Date of review, records of changes, the list of the members of the panel which change the curriculums must be recorded.
	Curriculum reviews	When the curriculums are changed, the students' performances must be monitored and recorded. Review reports must be written
	Version control of curriculum	Corrective Action Plans  <a href="http://www.highlightcomputer.com/Corrective_action_plan_template_V3.docx">www.highlightcomputer.com/Corrective_action_plan_template_V3.docx</a> Corrective Action Procedure  <a href="http://www.highlightcomputer.com/Corrective_Action_Procedure_v9.docx">www.highlightcomputer.com/Corrective_Action_Procedure_v9.docx</a>
	Performance updates	
8.5 Continuous Improvement	Internal control checklists	
	Undergoing assessment validation	Assessment Validation Documents  <a href="http://www.mongroupsdney1.com/RPLValidation.pdf">www.mongroupsdney1.com/RPLValidation.pdf</a>
	Collating validated assessment tools	Assessment Mapping  <a href="http://www.mongroupsdney1.com/AssessmentMapping.pdf">www.mongroupsdney1.com/AssessmentMapping.pdf</a>
		Continuous Improvement Plans <a href="http://www.highlightcomputer.com/Continuous_Improvement_Procedure_v3.docx">www.highlightcomputer.com/Continuous_Improvement_Procedure_v3.docx</a>
	Improvement requests	Internal/External audit records  Continuous Improvement Plans <a href="http://www.highlightcomputer.com/Continuous_Improvement_Procedure_v3.docx">www.highlightcomputer.com/Continuous_Improvement_Procedure_v3.docx</a>
	Internal/external audit findings	Students' Staff complaint Register/ Corrective Actions
	Improvement projects	How to prevent the complaints/ quality control action records  Continuous Improvement Plans <a href="http://www.highlightcomputer.com/Continuous_Improvement_Procedure_v3.docx">www.highlightcomputer.com/Continuous_Improvement_Procedure_v3.docx</a>
	Complaints processes and resolution	Complaint Handling Procedures must be prepared For example <a href="http://www.highlightcomputer.com/Complaints_Handling_Procedure_and_flowchart_FINAL_v2.docx">www.highlightcomputer.com/Complaints_Handling_Procedure_and_flowchart_FINAL_v2.docx</a>
	Preventive – staff meetings, Sydney Institute Executive	Teachers Professional Development  <a href="http://www.highlightcomputer.com/teachercurrency.pdf">www.highlightcomputer.com/teachercurrency.pdf</a>
	Innovation projects	

ISO standards only contain how to collect the required documents.

For academic accreditation purpose, relevant auditing and accreditation guidelines of the accreditation organizations are to be followed.

The following links contain the examples on preparing the course documents such as professional competencies, learning outcomes, subject contents and curriculum contents and sample accreditation advice.

**Preparing the course documents for accreditation**

[www.highlightcomputer.com/OverallProgramGeneral.pdf](http://www.highlightcomputer.com/OverallProgramGeneral.pdf)

Sample curriculum review advice

[www.highlightcomputer.com/CurriculumReviewAdvice.pdf](http://www.highlightcomputer.com/CurriculumReviewAdvice.pdf)





















# Myanmar Professional Engineers Register (The Institution of Professional Engineers-Myanmar)

[www.highlightcomputer.com/mper.htm](http://www.highlightcomputer.com/mper.htm)

Myanmar Engineering Council Law Changing Campaign

[www.highlightcomputer.com/mengclaw.htm](http://www.highlightcomputer.com/mengclaw.htm)

## PROFESSIONAL ENGINEER SUPPORT WEBSITE OF IQY TECHNICAL COLLEGE OF HIGHLIGHT COMPUTER GROUP

(if the direct download link is unavailable, the resources can be found & downloaded from the download centre)

[www.highlightcomputer.com/pesupport.htm](http://www.highlightcomputer.com/pesupport.htm)

[www.highlightcomputer.com](http://www.highlightcomputer.com)

A Professional Engineer needs wide knowledge of theory and practical applications of engineering. The knowledge is not limited to a particular course.

This Professional Engineer Support Website includes Engineering Job Competencies, Technician+ Technologist Level, Theoretical Knowledge requirement for Professional Engineer, Undergraduate Level Theoretical Knowledge requirement for Professional Engineer, Post graduate Level Theoretical Knowledge requirement for Professional Engineer, Practical Knowledge requirement for Professional Engineer ,Professional Engineer Postgraduate Competency Development (Electrical & Civil),Knowledge refreshing by watching lesson videos, Youtube Engineering Lessons ,MP4 Engineering Lessons ,Engineering Rules/Regulation/Safety Knowledge(Electrical Safety, Construction site safety & OHS, Explosion Protection & safety etc are included & the reference materials are referred from relevant Australian Industrial Safety Authorities), Engineering Competency Demonstration Report and Information on Professional Engineer Registration around the world. .

The purpose is to provide the one stop shop for the engineers who seek PE/RSE registration in Myanmar as well as ASEAN , UK, USA, Australia etc to get the information as well as refreshing the theoretical studies and practical knowledge.

## Engineering Job Competencies

[IQY Technical College Professional Engineer/Management Professional & Information Technology Professional Skills Training](#)

[Engineers Australia Professional Engineer, Engineering Technologists & Engineering Associate Competencies References](#)

### Part 1-ENGINEERING FUNDAMENTAL

[Technician+ Technologist Level Theoretical Knowledge requirement for Professional Engineer](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 1-Online Lessons\)](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 2-Reference Resources\)](#)

[Post graduate Level Theoretical Knowledge requirement for Professional Engineer](#)

Practical Knowledge requirement for Professional Engineer

Practical Knowledge requirement for Professional Engineer

## **Part 2-PROFESSIONAL ENGINEER COMPETENCY DEVELOPMENT**

Electrical    Electronics    Civil

The resources+ handbooks can only be provided in DVD disks

**Refresh your knowledge by watching lesson videos**

Youtube Engineering Lessons by Program Leader Engineering-  
**MIEAust, RPEQ,FSIET**

MP4 Engineering Lessons by Program Leader Engineering-  
**MIEAust, RPEQ, FSIET**

Youtube Engineering Lessons (Advanced Diploma of Electrical Engineering/Technology courses in Australia)

by Program Leader Engineering- **MIEAust, RPEQ, FSIET**

## **Part 3-ENGINEERING RULES/REGULATION/SAFETY**

Engineering Rules/Regulation/Safety Knowledge

Engineering Competency Demonstration Report

Competency Elements of Stage 1 Professional Engineer (Australia)

Electro-technology Competency Development

Electro-technology Competency Development (Electronics)

## **Part 4-PROFESSIONAL ENGINEER REGISTRATION**

Professional Engineer Registration around the world

Undergraduate Level Theoretical Knowledge requirement for Professional Engineer

## **Part 5-PROFESSIONAL ENGINEER RESOURCES DOWNLOAD CENTRE**

**Overall**

**[www.highlightcomputer.com/downloadcentre.htm](http://www.highlightcomputer.com/downloadcentre.htm)**

**Electrical+ Building Services**

**[www.highlightcomputer.com/PEEE.htm](http://www.highlightcomputer.com/PEEE.htm)**

**Electronics**

**[www.highlightcomputer.com/PEEC.htm](http://www.highlightcomputer.com/PEEC.htm)**

**Civil**

**[www.highlightcomputer.com/PECivilCombined.htm](http://www.highlightcomputer.com/PECivilCombined.htm)**

**Bachelor of Engineering (Civil)**

<http://www.highlightcomputer.com/CivilDegreeInstruction.pdf>

<http://www.highlightcomputer.com/CivilDegreeInstruction1.pdf>

**Video**

**Click Common Engineering Degree Video**

**Click BE Civil Instruction Video**

**Bachelor of Engineering (Electrical)**



<http://www.highlightcomputer.com/ElectricalDegreeInstruction.pdf>

<http://www.highlightcomputer.com/ElectricalDegreeInstruction1.pdf>

#### Video

**Click** [Common Engineering Degree Video](#)

**Click** [BE \(Electrical\) Instruction Video](#)

### Bachelor of Engineering (Mechanical)

<http://www.highlightcomputer.com/MechanicalDegreeInstruction.pdf>

<http://www.highlightcomputer.com/MechanicalDegreeInstruction1.pdf>

#### Video

**Click** [Common Engineering Degree Video](#)

**Click** [BE \(Mechanical\) Instruction Video](#)

Technician+ Technologist Level Theoretical Knowledge requirement for Professional Engineer

### Certificate/Diploma/Advanced Diploma (Civil Engineering)

<http://www.highlightcomputer.com/CivilDiplomaInstruction.pdf>

#### Video

**Click** [Civil Engineering Diploma Instruction Video](#)

### Certificate/Diploma/Advanced Diploma (Electrical Engineering)

<http://www.highlightcomputer.com/ElectricalDiplomaInstruction.pdf>

#### Video

**Click** [Electrical Engineering Diploma Instruction Video](#)

### Certificate/Diploma/Advanced Diploma (Mechanical Engineering)

<http://www.highlightcomputer.com/MechanicalDiplomaInstruction.pdf>

#### Video

**Click** [Mechanical Engineering Diploma Instruction Video](#)

Post graduate Level Theoretical + Practical+ Management Knowledge requirement for Professional Engineer

**Graduate Diploma & Master of Engineering Practice (Electrical/Civil/ Mechanical) for Graduate Engineers**

(72115/73315/72515/72315/72415/82115/82215/82315/82415/)

<http://www.highlightcomputer.com/GraduateDiplomaEngineeringPracticeOutline.pdf>

### **GRADUATE ENGINEER TRAINING PROGRAM**

[www.mongroupsytdney1.com/GraduateCapstone.pdf](http://www.mongroupsytdney1.com/GraduateCapstone.pdf)

[www.mongroupsytdney1.com/AdditionalCapstoneTextBooks.pdf](http://www.mongroupsytdney1.com/AdditionalCapstoneTextBooks.pdf)

### **PROFESSIONAL ENGINEER REGULATIONS**

[www.mongroupsytdney1.com/PEngReg.pdf](http://www.mongroupsytdney1.com/PEngReg.pdf)

### **PROPOSED PE ROUTE**

[www.mongroupsytdney1.com/PERSEProposalBasedonAccreditationModel.pdf](http://www.mongroupsytdney1.com/PERSEProposalBasedonAccreditationModel.pdf)

## **PROPOSED PE ROUTE EXPLANATION**

[www.mongroupsydneyn1.com/PERSEFlowDiagramExplanation.pdf](http://www.mongroupsydneyn1.com/PERSEFlowDiagramExplanation.pdf)

## **PROPOSED PE REGISTRATION PROCESS**

[www.mongroupsydneyn1.com/MyanmarEngineerRegistrationRulesProvision.pdf](http://www.mongroupsydneyn1.com/MyanmarEngineerRegistrationRulesProvision.pdf)

## **REVIEW OF ENGINEER LAW**

[www.mongroupsydneyn1.com/MEngCLawsPossibleWaystoimplementMod.pdf](http://www.mongroupsydneyn1.com/MEngCLawsPossibleWaystoimplementMod.pdf)

## **MYANMAR VERSION**

[www.mongroupsydneyn1.com/MEngCLawAnalysisMyanmarVersionTyped.pdf](http://www.mongroupsydneyn1.com/MEngCLawAnalysisMyanmarVersionTyped.pdf)

[www.mongroupsydneyn1.com/RegistraionSuggestionDrKyawNaing.pdf](http://www.mongroupsydneyn1.com/RegistraionSuggestionDrKyawNaing.pdf)

## **Engineering Rules/Regulation/Safety Knowledge**

## **Explosion Protection**

### **PROTECTION UNITS**

Click [HERE](#) to access the references for explosion protection

## **Electrical Safety**

**Electrician Licensing Requirements.zip**

[Stage 1 Part 3.zip](#)

[http://www.filefactory.com/file/c0cb8f5/n/Stage\\_1\\_Part\\_3.zip](http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip)

**SubstationEntry.zip**

[Stage 1 Part 5.zip](#)

[http://www.filefactory.com/file/c0cb9b3/n/Stage\\_1\\_Part\\_5.zip](http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip)

**Construction ElectricalSafety.zip**

[Stage 1 Part 1.zip](#)

[http://www.filefactory.com/file/c0cb8ab/n/Stage\\_1\\_Part\\_1.zip](http://www.filefactory.com/file/c0cb8ab/n/Stage_1_Part_1.zip)

**InserviceTesting.zip**

[Stage 1 Part 4.zip](#)

[http://www.filefactory.com/file/c0cc1cd/n/Stage\\_1\\_Part\\_4.zip](http://www.filefactory.com/file/c0cc1cd/n/Stage_1_Part_4.zip)

**NREL\_Disconnect\_Reconnect.zip**

[Stage 1 Part 5.zip](#)

[http://www.filefactory.com/file/c0cb9b3/n/Stage\\_1\\_Part\\_5.zip](http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip)

**Electrical\_safe\_working.zip**

[Stage 1 Part 3.zip](#)

[http://www.filefactory.com/file/c0cb8f5/n/Stage\\_1\\_Part\\_3.zip](http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip)

## **Occupational Health & Safety**

**OHSWorkbook.zip**

[Stage 1 Part 5.zip](#)

[http://www.filefactory.com/file/c0cb9b3/n/Stage\\_1\\_Part\\_5.zip](http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip)

## **Electrical Risk Assessment**

[Project Risk Management References](#)

[Report Writing](#)

## **Post graduate Level Theoretical Knowledge requirement for Professional Engineer**

[IOY Masters Degree \(M Mat+ ME \(EE.CE.ME\)+M App Sc \(IT\)+MSc \(RE\)+ Associate Degree in RE+ BE \(Civil+ Mechanical\) Courses Learning Support Website](#)

[Graduate Diploma of Engineering Practice \(Mechanical\) Course Outline](#)

### **Course Notes**

[http://www.filefactory.com/file/21fkobz76fvj/Graduate\\_Diploma%20in%20Mechanical%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/21fkobz76fvj/Graduate_Diploma%20in%20Mechanical%20Engineering%20Course%20Work.pdf)

[Graduate Diploma of Engineering Practice \(Civil\) Course Outline](#)

### **Course Notes**

[http://www.filefactory.com/file/21ifsjw6w873/Graduate\\_Diploma%20in%20Civil%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/21ifsjw6w873/Graduate_Diploma%20in%20Civil%20Engineering%20Course%20Work.pdf)

**Graduate Diploma of Engineering (Electrical+Electronics) Course Outline**

**Course Notes**

[http://www.filefactory.com/file/70g9yl2t4ogt/Graduate\\_Diploma%20in%20Electrical%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/70g9yl2t4ogt/Graduate_Diploma%20in%20Electrical%20Engineering%20Course%20Work.pdf)

## Diploma in Teaching Practice

jointly taught by (St Clements Technological University/  
Singapore Institute of Engineering Technologists/ IQY Technical College)

## ENROLMENT LINK

**Click the following link & fill the form.**

<http://www.emailmeform.com/builder/form/tq48xQ6acb>

## REFERENCE SITE

[www.highlightcomputer.com/bedschoolvet.htm](http://www.highlightcomputer.com/bedschoolvet.htm)

## List of Subjects for Teaching Practice

ED101P Teaching Support  
ED102P Application of Information Technology in School Education  
ED103P Classroom Management  
ED104P Teaching Portfolio  
ED105P Inclusive Teaching  
ED106P Subject Area Knowledge

ED107 Theory of Education, Educational Technology & Teaching Practice

ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )  
ED107B-Education Technology (ED102) (Slide 61 to 100)  
ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)  
ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)  
ED107E-Teaching & Learning (Slide 141 to 160+ Slide 200 to 240 )  
ED107F-Inclusive Teaching (ED105 Inclusive Teaching Slide 161 to 200)  
ED107G-Evaluation & Assessment (Slide 301 to 320)

ED108 Curriculum Study , Teaching & Learning  
Interpreting Curriculums

## Study Sequence for Graduates

ED106 Subject Area Knowledge (Present Degree)

Part (1) Theory Training & Assignment (Certificate in Teaching Practice)

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)

ED101P Teaching Support  
ED102P Application of Information Technology in School Education  
ED103P Classroom Management  
ED104P Teaching Portfolio  
ED105P Inclusive Teaching

## Study Sequence for Experienced Teachers

ED106 Subject Area Knowledge (Present Degree)

**Part (1) Theory Training & Assignment (Certificate in Teaching Practice)**

ED107 Theory of Education, Educational Technology & Teaching Practice

ED108 Curriculum Study , Teaching & Learning

**Part (2) Teaching Practice Portfolio Presentation (Diploma in Teaching Practice)**

The following subjects can be exempted by presenting the reference letter from the school.

ED101 Teaching Support

ED103 Classroom Management

ED105 Inclusive Teaching

The following subject needs to be studied

ED102 Application of Information Technology in School Education

Teaching portfolio needs to be presented for the following subject

ED104 Teaching Portfolio

## REFERENCE EDUCATION THEORIES

ED 101 Theory of Education

ED 102 Education Technology

ED 103 Teaching Practice

ED 104 Lesson Planning

ED 105 Principle of Learning

ED 106 Interpreting Curriculums

## VIDEOS

IQY Teacher Training 1

<https://youtu.be/CHqmQ1lfwa4>

IQY Teacher Training 2

<https://youtu.be/i-VpgngRumw>

IQY Teacher Training 3

<https://youtu.be/eYujIkvdPYw>

IQY Teacher Training 4

<https://youtu.be/n9y49b5qO8g>

## TEACHER TRAINING- IQY-AUDIO Download Links

**VN860195.zip (96.74MB)**

<http://www.filefactory.com/file/6s4a0e57kz25/n/VN860195.zip>

**VN860197.zip (98.04MB)**

<http://www.filefactory.com/file/19yvgu2vqrdl/n/VN860197.zip>

**VN860196.zip (39.01MB)**

<http://www.filefactory.com/file/5ukezf8qmmb3/n/VN860196.zip>

**VN860136 (147MB)**

<http://www.filefactory.com/file/3wbq5wqon6zn/VN860136.zip>

## STUDY GUIDES & LESSONS

## ED101 to ED106

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)

## ED107 Lessons

ED107 Exercises

[www.highlightcomputer.com/ED107Exercises.pdf](http://www.highlightcomputer.com/ED107Exercises.pdf)

ED107 Part 1 (Slide 1 to 20) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1071.pdf](http://www.highlightcomputer.com/ED1071.pdf)

ED107 Part 2 (Slide 21 to 40) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1072.pdf](http://www.highlightcomputer.com/ED1072.pdf)

ED107 Part 3 (Slide 41 to 60) ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

[www.highlightcomputer.com/ED1073.pdf](http://www.highlightcomputer.com/ED1073.pdf)

ED107 Part 4 (Slide 61 to 80) ED107B-Education Technology (ED102) (Slide 61 to 100)

[www.highlightcomputer.com/ED1074.pdf](http://www.highlightcomputer.com/ED1074.pdf)

ED107 Part 5 (Slide 81 to 120) ED107B-Education Technology (ED102) (Slide 61 to 100)+ ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1075.pdf](http://www.highlightcomputer.com/ED1075.pdf)

ED107 Part 6 (Slide 121 to 140) ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

[www.highlightcomputer.com/ED1076.pdf](http://www.highlightcomputer.com/ED1076.pdf)

ED107 Part 7 (Slide 141 to 160) ED107E-Teaching & Learning (Slide 141 to 160)

[www.highlightcomputer.com/ED1077.pdf](http://www.highlightcomputer.com/ED1077.pdf)

ED107 Part 8 (Slide 161 to 180) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1078.pdf](http://www.highlightcomputer.com/ED1078.pdf)

ED107 Part 9 (Slide 181 to 200) (ED105 Inclusive Teaching Slide 161 to 200)

[www.highlightcomputer.com/ED1079.pdf](http://www.highlightcomputer.com/ED1079.pdf)

ED107 Part 10 (Slide 201 to 220) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10710.pdf](http://www.highlightcomputer.com/ED10710.pdf)

ED107 Part 11 (Slide 221 to 240) (ED107E-Teaching & Learning Slide 200 to 240 )

[www.highlightcomputer.com/ED10711.pdf](http://www.highlightcomputer.com/ED10711.pdf)

ED107 Part 12 (Slide 241 to 260) ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10712.pdf](http://www.highlightcomputer.com/ED10712.pdf)

ED107 Part 13 (Slide 261 to 280) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10713.pdf](http://www.highlightcomputer.com/ED10713.pdf)

ED107 Part 14 (Slide 261 to 300) - ED107D Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

[www.highlightcomputer.com/ED10714.pdf](http://www.highlightcomputer.com/ED10714.pdf)

ED107 Part 15 (Slide 301 to 320)- ED107G-Evaluation & Assessment (Slide 301 to 320)

[www.highlightcomputer.com/ED10715.pdf](http://www.highlightcomputer.com/ED10715.pdf)

## ED108 Lessons

ED108 Exercises

[www.highlightcomputer.com/ED108Exercises.pdf](http://www.highlightcomputer.com/ED108Exercises.pdf)

ED108 Part 1 (Slide 1 to 20)

[www.highlightcomputer.com/ED1081.pdf](http://www.highlightcomputer.com/ED1081.pdf)

ED108 Part 2 (Slide 21 to 40)

[www.highlightcomputer.com/ED1082.pdf](http://www.highlightcomputer.com/ED1082.pdf)

ED108 Part 3 (Slide 41 to 60)

[www.highlightcomputer.com/ED1083.pdf](http://www.highlightcomputer.com/ED1083.pdf)

ED108 Part 4 (Slide 61 to 80)

[www.highlightcomputer.com/ED1084.pdf](http://www.highlightcomputer.com/ED1084.pdf)

ED108 Part 5 (Slide 81 to 100)

[www.highlightcomputer.com/ED1085.pdf](http://www.highlightcomputer.com/ED1085.pdf)

ED108 Part 6 (Slide 101 to 120)

[www.highlightcomputer.com/ED1086.pdf](http://www.highlightcomputer.com/ED1086.pdf)

ED108 Part 7 (Slide 121 to 140)

[www.highlightcomputer.com/ED1087.pdf](http://www.highlightcomputer.com/ED1087.pdf)

ED108 Part 8 (Slide 141 to 160)

[www.highlightcomputer.com/ED1088.pdf](http://www.highlightcomputer.com/ED1088.pdf)

**OPTIONAL**

**( Certificate in Vocational Education & Training-Engineering Technology Teaching)**

Online training & assignment

<http://www.highlightcomputer.com/gtc.htm>

## **ADDITIONAL REFERENCES FOR ED107 LESSONS**

ED 101 Theory of Education

[www.highlightcomputer.com/ED101.ppt](http://www.highlightcomputer.com/ED101.ppt)

ED 102 Education Technology

[www.highlightcomputer.com/ED102.ppt](http://www.highlightcomputer.com/ED102.ppt)

Integration of Learning Technology in Teaching & Learning Part 1

[http://youtu.be/bV\\_CJdY7fs0](http://youtu.be/bV_CJdY7fs0)

Technology in Classroom

<http://youtu.be/rzLQq6D6-OU>

ED 103 Teaching Practice

[www.highlightcomputer.com/ED103Part1.ppt](http://www.highlightcomputer.com/ED103Part1.ppt)

[www.highlightcomputer.com/ED103Part2.ppt](http://www.highlightcomputer.com/ED103Part2.ppt)

ED 104 Lesson Planning

[www.highlightcomputer.com/ED104.ppt](http://www.highlightcomputer.com/ED104.ppt)

ED 105 Principle of Learning

[www.highlightcomputer.com/ED105.ppt](http://www.highlightcomputer.com/ED105.ppt)

ED 106 Interpreting Curriculums

[www.highlightcomputer.com/ED106.ppt](http://www.highlightcomputer.com/ED106.ppt)

## **ED101 to ED106 ASSIGNMENTS**

[www.highlightcomputer.com/ED101106.pdf](http://www.highlightcomputer.com/ED101106.pdf)



# Diploma in Teaching Practice

## DAY 1

Day1-1 Vocational Education

<https://youtu.be/AJJYBI781wY>

Day1-2 Training system

[https://youtu.be/Fa9mcnsnpn\\_Q](https://youtu.be/Fa9mcnsnpn_Q)

Day1-3 Learning Support

<https://youtu.be/61U1UdZcljM>

Day1-4 E Learning

<https://youtu.be/iSlGcqBQZx4>

Day1-5 A Teaching

### Theory of Education+ Curriculum

ED107 Theory of Education, Educational Technology & Teaching Practice  
(15 Credits)

ED107A-Theory of Education (ED101) (Slide 1 to 60 Principle of Learning )

ED107B-Education Technology (ED102) (Slide 61 to 100)

### Supporting slides

Teacher Training/ Support Lesson Slides/

- ED101-Teaching Support-Fundamental of Education.ppt

- Video

ED1071 Class Participation+ED1072 Memory

ED1073 Developing Students Interest

ED1074 Teaching Methods

ED1075 Students Teacher Relation and Classroom Management

<https://youtu.be/7MBR3--iLI8>

Course Notes- (Myanmar)

[www.highlightcomputer.com/ED107Notes.pdf](http://www.highlightcomputer.com/ED107Notes.pdf)

### Teaching Practice

ED107C-Teaching Practice (ED103 Classroom Management) (Slide 101 to 140)

### Supporting slides

ED103 Classroom Management-best practices in teaching.ppt

### Videos

ED1076 Students Behaviour Management

ED1077 Class Management & Disciplining

ED1078 Maintaining Students Interest

ED1079 Students Motivation

ED10710 Teaching Activities

<https://youtu.be/gafUNZVo48U>

### Lesson Planning

ED107D-Lesson Planning (ED104 Teaching Portfolio)(Slide 241 to 300)

ED107E-Teaching & Learning (Slide 141 to 160+ Slide 200 to 240 )

## Video

ED 10711 Critical Reflective Teaching  
ED 10712 Using Teaching Aids  
ED 10713 Lesson Planning  
ED 10714 Evaluation and Assessment  
ED 10715 Critical Review

<https://youtu.be/JJhDD0vNk0g>

## DAY 2

Day1-5BEffective Teaching & Learning Environment

<https://youtu.be/XybWGEEA-1U>

Day1-6 Critical Thinking in Teaching

<https://youtu.be/TwdxbBsXuQo>

## Critical Thinking

National Strategic Plan 2016-2021 Myanmar/ Grad Cert HEd/ ED431-434MP4/ ED431CriticalThinking 24  
Slides.pptx

## VIDEOS

<https://youtu.be/Cekuc04E2xM>

Day1-7 Class Management

<https://youtu.be/69Y9FvTKxzw>

Day1-8Curriculum

## Curriculum Study

Ed108

## Video

ED 1081 Meaning of Curriculum  
ED 1082 Teaching Concepts and Curriculum  
ED 1083 Types of Curriculums  
ED 1084 Curriculum Development  
ED 1085 Curriculum Writing  
ED 1086 Curriculum Review  
ED 1087 Curriculum Evaluation  
ED 1088 Curriculum Change Process

<https://youtu.be/JyVwDtlcD7w>

## DAY 3

Day1-9 Teaching Portfolio

<https://youtu.be/agfWW31J7YE>

The Institution of Professional Engineers Myanmar Technological University (IPEMTU)

Study Support Resources System

[www.ipemyanmar.org/IQYTUResources.htm](http://www.ipemyanmar.org/IQYTUResources.htm)

For list of the books in zip files, see the link

<http://www.highlightcomputer.com/turesources.htm>

This website contains the reference books for TU Engineering Courses Curriculums.

If any link is not working, please send the link to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

MyanmarTechnological University Curriculum

[www.highlightcomputer.com/ttucurriculum.htm](http://www.highlightcomputer.com/ttucurriculum.htm)

MyanmarTechnological University Resources

[www.ipemyanmar.org/IQYTUResources.htm](http://www.ipemyanmar.org/IQYTUResources.htm)

[Electronic Engineering](#)(BE-EC)

[Electrical Power Engineering](#) (BE-EP)

[Civil Engineering](#)(BE-Civil)

[Mechanical Engineering](#) (BE-Mech)

[ICT Engineering](#) (BE-ICT)

[Mechatronics Engineering](#)(BE-Mechatronics)

[Chemical Engineering](#) (BE-Chemical)

[Petroleum Engineering](#)(BE-Petroleum)

## **ENGINEERING CALCULATIONS HANDBOOKS**

## **ENGINEERING FUNDAMENTAL TESTS & PROFESSIONAL ENGINEER EXAMINATION REFERENCES**

## **ELECTRICAL+MECHANICAL+CIVIL ENGINEERING PRACTICALS**

### **Other BE Level Curriculums**

[Architectural Engineering](#) (BE-Architectural Engg)  
(First three years common with BE-Civil)

[Metallurgical & Materials Engineering](#) (BE-Met & Mat)  
(First three years common with BE-Mechanical)

[Marine Electrical ,Electronics & Mechatronics Engineering](#)  
(BE-Marine EE Mechatronics)  
(First four years common with BE-Mechatronics)

[Mineral Extraction & Explosion Protection Engineering](#)(BE-  
MinExp)  
(First four years common with BE-Petroleum)

[Renewable Energy Engineering](#) (BE-Renewable Engg)

Thanlyin Technological University (TTU)  
Department of Electronic Engineering  
Curriculum for Bachelor of Engineering  
(New 6 year Direct Intake System)

## **BE (Electronics) Year 1**

BE Electronics

Part 1

<https://mega.nz/file/T15GhITY#5KrdgtzJAFmfm9r9Ch7FFG-eS3CgLJvJWNaBv8nb3OE>

Part 2

<https://mega.nz/file/XxJ1BCLT#5Csqg36xRpRiOSCjZ6VpsSRkbgR1W5blXWNI8jevm4Y>

Part 3

<https://mega.nz/file/f55kiYTT#prAvhgeoB8EoL0K97BR-H3OIsLF9GnN42fSCy5CTXtQ>

Part 4

[https://mega.nz/file/f04g1K4I#bK\\_uwUXsuhJIZI0N0X5EqiPCjNO47HZuQENx70AHkt4](https://mega.nz/file/f04g1K4I#bK_uwUXsuhJIZI0N0X5EqiPCjNO47HZuQENx70AHkt4)

Part 5

<https://mega.nz/file/X9oEBa5Z#KX3HxvtXDorGbQydkAlCYN9TUqJR069uaA087ewSGZE>

M-11011	Myanmar I
E-11011	English I
EM-11001	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ch-11011	Engineering Chemistry I
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
EcE-11011	Fundamental of Electronic Circuits
	<a href="http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip</a>

BE (Electronics) Year 2

E-22011	English
EM-22004	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
EcE-22002	Communication Principles II
	<a href="http://www.iqytechnicalcollege.com/EE 603 Electronics Telecommunication.pdf">www.iqytechnicalcollege.com/EE 603 Electronics Telecommunication.pdf</a>
	<a href="http://www.iqytechnicalcollege.com/Electronics for Communication Engineers.pdf">www.iqytechnicalcollege.com/Electronics for Communication Engineers.pdf</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 604 Telecommunication Engineering.zip">www.iqytechnicalcollege.com/BAE 604 Telecommunication Engineering.zip</a>
	<a href="http://www.iqytechnicalcollege.com/New folder (2).zip">http://www.iqytechnicalcollege.com/New folder (2).zip</a>
	<a href="http://www.iqytechnicalcollege.com/New Folder.zip">www.iqytechnicalcollege.com/New Folder.zip</a>
EcE-22001	Electronic Engineering Circuit II

	<a href="http://www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip">www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip</a>  <a href="http://www.iqytechnicalcollege.com/New folder.zip">www.iqytechnicalcollege.com/New folder.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip</a>
EcE-22021	Digital Electronics II
	<a href="http://www.iqytechnicalcollege.com/DE.zip">www.iqytechnicalcollege.com/DE.zip</a>  <a href="http://www.iqytechnicalcollege.com/Digital.zip">www.iqytechnicalcollege.com/Digital.zip</a>  <a href="http://www.iqytechnicalcollege.com/H012.zip">www.iqytechnicalcollege.com/H012.zip</a>
EcE-22011	Microelectronics II
	<a href="http://www.iqytechnicalcollege.com/EcE-21011+22011-Microelectronics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-21011+22011-Microelectronics 1 &amp; 2.zip</a>
EcE-22014	Technical Programming
	<a href="http://www.iqytechnicalcollege.com/EcE-21014+22014-Technical Programming 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-21014+22014-Technical Programming 1 &amp; 2.zip</a>

#### BE (Electronics) Year 3

E-31011	English
EM-31005	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
EcE-31001	Engineering Circuit Analysis I
	<a href="http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip</a>
EcE-31002	Computer Communication I
	<a href="http://www.iqytechnicalcollege.com/EcE-31002+32002-Computer Communication 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31002+32002-Computer Communication 1 &amp; 2.zip</a>
EcE-31011	Engineering Electromagnetic I
	<a href="http://www.iqytechnicalcollege.com/EcE-31011+32011-Engineering Electro-magnetics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31011+32011-Engineering Electro-magnetics 1 &amp; 2.zip</a>
EcE-31021	Integrated Electronics I
	<a href="http://www.iqytechnicalcollege.com/EcE-31021-Integrated Electronics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31021-Integrated Electronics 1 &amp; 2.zip</a>
EcE-31003	Modeling and Control I
	<a href="http://www.iqytechnicalcollege.com/EcE-31003+32003-Modeling and Control 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31003+32003-Modeling and Control 1 &amp; 2.zip</a>

#### BE (Electronics) Year 4

E-41011	English
EM-41016	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
EcE-41002	Digital Communication I
	<a href="http://www.iqytechnicalcollege.com/EcE-41002+42002-Digital Communication 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-41002+42002-Digital Communication 1 &amp; 2.zip</a>
EcE-41021	Digital Design with HDL I

	<a href="http://www.iqytechnicalcollege.com/EcE-41021+42021-Digital Design with HDL 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-41021+42021-Digital Design with HDL 1 &amp; 2.zip</a>
EcE-41003	Modern Control System I
	<a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/Control 1.zip">www.iqytechnicalcollege.com/Control 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/Control 2.zip">www.iqytechnicalcollege.com/Control 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/Control 3.zip">www.iqytechnicalcollege.com/Control 3.zip</a>
EP-41043	Electrical Machines I
	<a href="http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 1.zip">http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 2.zip">http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/Slides.zip">www.iqytechnicalcollege.com/Slides.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 406 Electro-mechanics.zip">www.iqytechnicalcollege.com/BAE 406 Electro-mechanics.zip</a>
EcE-41031	Industrial Electronic & Control I
	<a href="http://www.iqytechnicalcollege.com/EcE-41031+42031-Industrial Electronics &amp; Control 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-41031+42031-Industrial Electronics &amp; Control 1 &amp; 2.zip</a>

#### BE (Electronics) Year 5

E-51011	English
EcE-51001	Advanced Electronics
	<a href="http://www.iqytechnicalcollege.com/EcE-51001-Advanced Electronics.zip">http://www.iqytechnicalcollege.com/EcE-51001-Advanced Electronics.zip</a>
EcE-51003	Digital Control System
	<a href="http://www.iqytechnicalcollege.com/EcE-51003-Digital Control System.zip">http://www.iqytechnicalcollege.com/EcE-51003-Digital Control System.zip</a>
EcE-51013	Microwave Engineering
	<a href="http://www.iqytechnicalcollege.com/EcE-51013-Microwave Engineering.zip">http://www.iqytechnicalcollege.com/EcE-51013-Microwave Engineering.zip</a>
EcE52004	Microprocessor System
	<a href="http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip">http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip</a>
EcE52005	Digital Signal Processing
	<a href="http://www.iqytechnicalcollege.com/EcE-52005-Digital Signal Processing.zip">http://www.iqytechnicalcollege.com/EcE-52005-Digital Signal Processing.zip</a>
EcE52012	Wireless and Mobile Communications
	<a href="http://www.iqytechnicalcollege.com/EcE-52012-Wireless and Mobile Communication.zip">http://www.iqytechnicalcollege.com/EcE-52012-Wireless and Mobile Communication.zip</a>

#### BE (Electronics) Year 6

E-61011	English
EcE-61016	Industrial Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
EcE-61015	Network Planning and Management (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61015-Network Planning &amp; Management.zip">http://www.iqytechnicalcollege.com/EcE-61015-Network Planning &amp; Management.zip</a>
EcE-61001	Software Tools for Electronic Design (Project)

	<a href="http://www.iqytechnicalcollege.com/EcE-61001-Software Tools for Electronic Design (Project).zip">http://www.iqytechnicalcollege.com/EcE-61001-Software Tools for Electronic Design (Project).zip</a>
EcE-61012	Modern Electronic Communication Systems I
	<a href="http://www.iqytechnicalcollege.com/EcE-61012-Modern Electronic Communication System.zip">http://www.iqytechnicalcollege.com/EcE-61012-Modern Electronic Communication System.zip</a>
EcE-61003	PLC and SCADA Control System (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip">http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip</a>

[www.iqytechnicalcollege.com/1.pdf](http://www.iqytechnicalcollege.com/1.pdf)

[www.iqytechnicalcollege.com/Problems and Solutions in Electronics.pdf](http://www.iqytechnicalcollege.com/Problems and Solutions in Electronics.pdf)

## BE (Electrical Power) Year 1

BE –Electrical Power

Part 1

[https://mega.nz/file/RQZTXYS#-EpKh7z6oD9J6Tos1\\_NNzjuTOMzGLTJ\\_AtVjdBMpd5o](https://mega.nz/file/RQZTXYS#-EpKh7z6oD9J6Tos1_NNzjuTOMzGLTJ_AtVjdBMpd5o)

Part 2

<https://mega.nz/file/QVZXSQZl#sShMjACAr9l1qjchWw-wtGHbAi7LEiu2UqQgD844HtY>

Part 3

[https://mega.nz/file/ZdARVSDB#OOskdwtn0NI1d1GAwH\\_yQ7gpiZL8k3mmID1plOW1WaA](https://mega.nz/file/ZdARVSDB#OOskdwtn0NI1d1GAwH_yQ7gpiZL8k3mmID1plOW1WaA)

M 11011	Myanmar I
E 11011	English I
EM 11001	Engineering Mathematics I
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ch. 11011	Engineering Chemistry I
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
ME-11010	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
ME 11011	Principle of Electrical Engineering I
	<a href="http://www.iqytechnicalcollege.com/ME 11011+12011-Principle of Electrical Engineering 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME 11011+12011-Principle of Electrical Engineering 1 &amp; 2.zip</a>

BE (Electrical Power) Year 2

E 21011	English
EM 21003	Engineering Mathematics III
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
EP 21011	Electrical Engineering Circuit Analysis I
	EP 21011+22011 =EcE-22001+22002-Electronic Engineering Circuit 1 & 2



	<a href="http://www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip">www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip</a>  <a href="http://www.iqytechnicalcollege.com/New folder.zip">www.iqytechnicalcollege.com/New folder.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip</a>
EP 21014	Basic Electronics I
	EP 21014+22014-Basic Electronics 1 & 2=EcE-22001+22002-Electronic Engineering Circuit 1 & 2
	<a href="http://www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip">www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip</a>  <a href="http://www.iqytechnicalcollege.com/New folder.zip">www.iqytechnicalcollege.com/New folder.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip</a>
EP 21021	Electromechanics I
	<a href="http://www.iqytechnicalcollege.com/EP 21021+22021-Electromechanics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 21021+22021-Electromechanics 1 &amp; 2.zip</a>
	Generation, Transmission and Distribution
EP 21026	<a href="http://www.iqytechnicalcollege.com/EP 21026+EP 22026-Generation, Transmission and Distribution 1.zip">http://www.iqytechnicalcollege.com/EP 21026+EP 22026-Generation, Transmission and Distribution 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/EP 21026+EP 22026-Generation, Transmission and Distribution 2.zip">http://www.iqytechnicalcollege.com/EP 21026+EP 22026-Generation, Transmission and Distribution 2.zip</a>
ME 21015	Engineering Mechanics I
	<a href="http://www.iqytechnicalcollege.com/ME 21015+22015-Engineering Mechanics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME 21015+22015-Engineering Mechanics 1 &amp; 2.zip</a>
BE (Electrical Power) Year 3	
E 31011	English
EM 31005	Differential Equation
	<a href="http://www.iqytechnicalcollege.com/EM 31005+32006-Differential Equation 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM 31005+32006-Differential Equation 1 &amp; 2.zip</a>
ME 31034	Mechanical Engineering Fundamental I
	<a href="http://www.iqytechnicalcollege.com/profdipenggmod.htm#a22">http://www.iqytechnicalcollege.com/profdipenggmod.htm#a22</a> <a href="http://www.iqytechnicalcollege.com/profdipenggmod.htm#a21">http://www.iqytechnicalcollege.com/profdipenggmod.htm#a21</a>
EP 31011	Electrical Engineering Circuit Analysis III
	<a href="http://www.iqytechnicalcollege.com/EP 31011+32011-Electrical Engineering Circuit Analysis III &amp; IV.zip">http://www.iqytechnicalcollege.com/EP 31011+32011-Electrical Engineering Circuit Analysis III &amp; IV.zip</a>
EP 31014	Power Electronics I
	<a href="http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip</a>
EP 31021	Electrical Machine and Operation I
	<a href="http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 1.zip">http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 2.zip">http://www.iqytechnicalcollege.com/9-39-E Machine Drive power syst 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/Slides.zip">www.iqytechnicalcollege.com/Slides.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 406 Electro-mechanics.zip">www.iqytechnicalcollege.com/BAE 406 Electro-mechanics.zip</a>
EP 31033	Electromagnetic Field I
	EP 31033+32033-Electromagnetic Field 1 & 2=EcE-31011+32011-Engineering Electro-magnetics 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EcE-31011+32011-Engineering Electro-magnetics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31011+32011-Engineering Electro-magnetics 1 &amp; 2.zip</a>
EP 31025	Electrical Measurement Instrumentation
	<a href="http://www.iqytechnicalcollege.com/EP 31025-Electrical Measurement &amp; Instrumentation.zip">www.iqytechnicalcollege.com/EP 31025-Electrical Measurement &amp; Instrumentation.zip</a>

E 41011	English
EM 41007	Discrete Mathematics I
	<a href="http://www.iqytechnicalcollege.com/EM 41007+42007-Discrete mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM 41007+42007-Discrete mathematics 1 &amp; 2.zip</a>
EP 41027	Linear Control System I
	EP 41027+42027+EP 51017+52017-Linear Control System 1+2=EcE-41003+42003-Modern Control System 1 & 2
	<a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/Control 1.zip">www.iqytechnicalcollege.com/Control 1.zip</a>
	<a href="http://www.iqytechnicalcollege.com/Control 2.zip">www.iqytechnicalcollege.com/Control 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/Control 3.zip">www.iqytechnicalcollege.com/Control 3.zip</a>
EP 41028	Programmable Logic Control I
	EP 41028+42028-Programmable Logic Control 1 & 2=EcE-61003-PLC and SCADA Control System (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip">http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip</a>
EP 41021	Electrical Machine Design I
	<a href="http://www.iqytechnicalcollege.com/EP 41021+42021-Electrical Machine Design.zip">http://www.iqytechnicalcollege.com/EP 41021+42021-Electrical Machine Design.zip</a>
EP 41036	Design & Layout of Power System I
	<a href="http://www.iqytechnicalcollege.com/EP 41036+42036-Design &amp; Layout of Power System 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 41036+42036-Design &amp; Layout of Power System 1 &amp; 2.zip</a>
EP 41042	Power System Analysis I
	<a href="http://www.iqytechnicalcollege.com/EP 41042+42042-Power System Analysis 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 41042+42042-Power System Analysis 1 &amp; 2.zip</a>
EC 41004	Microprocessor System
	<a href="http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip">http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip</a>

#### BE (Electrical Power) Year 5

E 51011	English
EP 51017	Modern Control System I
	<a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/Control 1.zip">www.iqytechnicalcollege.com/Control 1.zip</a>
	<a href="http://www.iqytechnicalcollege.com/Control 2.zip">www.iqytechnicalcollege.com/Control 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/Control 3.zip">www.iqytechnicalcollege.com/Control 3.zip</a>
EP 51014	Electrical Machine and Control I
	<a href="http://www.iqytechnicalcollege.com/EP 51014+52014-Electrical Machine and Control 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 51014+52014-Electrical Machine and Control 1 &amp; 2.zip</a>
EP 51022	Power System Protection I
	<a href="http://www.iqytechnicalcollege.com/EP 51022+52022-Power System Protection 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 51022+52022-Power System Protection 1 &amp; 2.zip</a>
EP 51002	Economic Operation of Power System
	<a href="http://www.iqytechnicalcollege.com/EP 51002+52002-Economic Operation of Power System.zip">http://www.iqytechnicalcollege.com/EP 51002+52002-Economic Operation of Power System.zip</a>
EP 51043	Electromechanical Energy Conversion
	<a href="http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip">http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip</a>
EP 51015	Energy Technology
	<a href="http://www.iqytechnicalcollege.com/EP 51015+52015-Energy Technology.zip">http://www.iqytechnicalcollege.com/EP 51015+52015-Energy Technology.zip</a>

#### BE (Electrical Power) Year 6

E 61011	English
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EP	Industrial Engineering and Management
	EP Industrial Engineering and Management=EcE-61016-Industrial Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
EP	Humanities and Social Science
EP	Computer Aided Electrical Engineering
	EP-Computer Aided Electrical Engineering=EcE-61001-Software Tools for Electronic Design (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61001-Software Tools for Electronic Design (Project).zip">http://www.iqytechnicalcollege.com/EcE-61001-Software Tools for Electronic Design (Project).zip</a>
EP	Electrical Safety and Ethic
	<a href="http://www.iqytechnicalcollege.com/EP-Electrical Safety and Ethic.zip">http://www.iqytechnicalcollege.com/EP-Electrical Safety and Ethic.zip</a>
EP	Sensor Technology (Assignment only) (Optional)
	EP-Sensor Technology =EcE-61003-PLC and SCADA Control System (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip">http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip</a>

## BE (Civil) Year 1

BE Civil

[https://mega.nz/file/DhFUnaqY#mjZLcjLrV88IIFf1gDk6As3H\\_gDSJmEtyG6GT47mwTs](https://mega.nz/file/DhFUnaqY#mjZLcjLrV88IIFf1gDk6As3H_gDSJmEtyG6GT47mwTs)

M-11011	Myanmar
E-11011	English
EM-11001	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ch.11011	Engineering Chemistry
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
CE 11022	Building Materials & Construction
	<a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4</a>
	<a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6</a>
	<a href="http://www.iqytechnicalcollege.com/Construction.zip">www.iqytechnicalcollege.com/Construction.zip</a>

BE (Civil) Year 2

E-22011	English
EM-22004	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME-22015	Engineering Mechanics
	<a href="http://www.iqytechnicalcollege.com/ME 21015+22015-Engineering Mechanics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME 21015+22015-Engineering Mechanics 1 &amp; 2.zip</a>
EP 22011	Applied Electrical Engineering

	<a href="http://www.iqytechnicalcollege.com/ME_11011+12011-Principle of Electrical Engineering 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME_11011+12011-Principle of Electrical Engineering 1 &amp; 2.zip</a>
CE 22011	Surveying II
	<a href="http://www.iqytechnicalcollege.com/CE_21011+22011+CE-31011+32011-Surveying.zip">http://www.iqytechnicalcollege.com/CE_21011+22011+CE-31011+32011-Surveying.zip</a>
CE 22012	Civil Engineering Drawing II
	<a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4</a>  <a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6</a>
CE 22019	Workshop Technologies & Practices II CE 21019+22019-Workshop Technologies & Practices=ME 21012 +22012-Workshop Technology <a href="http://www.iqytechnicalcollege.com/ME_21012_+22012-Workshop Technology.zip">http://www.iqytechnicalcollege.com/ME_21012_+22012-Workshop Technology.zip</a>

#### BE (Civil) Year 3

E-31011	English
EM-31005	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
CE-31011	Surveying III
	<a href="http://www.iqytechnicalcollege.com/CE_21011+22011+CE-31011+32011-Surveying.zip">http://www.iqytechnicalcollege.com/CE_21011+22011+CE-31011+32011-Surveying.zip</a>
CE 31013	Mechanics of Materials I
	<a href="http://www.iqytechnicalcollege.com/Engineering_Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>  <a href="http://www.iqytechnicalcollege.com/Materials.zip">www.iqytechnicalcollege.com/Materials.zip</a>  <a href="http://www.iqytechnicalcollege.com/RE-Engineering_Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
CE 31016	Fluid Mechanics I
	CE 31016+32016-Fluid Mechanics=ME 41016+42016+ME 51016+52016-Fluid Mechanics <a href="http://www.iqytechnicalcollege.com/ME_41016+42016+ME_51016+52016-Fluid_Mechanics.zip">http://www.iqytechnicalcollege.com/ME_41016+42016+ME_51016+52016-Fluid Mechanics.zip</a>
CE 31017	Transportation Engineering I
	<a href="http://www.iqytechnicalcollege.com/CE_31017+32017+CE_41017+42017-Transportation_Engineering.zip">http://www.iqytechnicalcollege.com/CE_31017+32017+CE_41017+42017-Transportation Engineering.zip</a>
CE 31015	Geotechnical Engineering I
	Soil & Rock Mechanic.pdf (10.97MB) <a href="http://www.iqytechnicalcollege.com/CE_31015+32015+CE_41015+42015-Geotechnical_Engineering.zip">http://www.iqytechnicalcollege.com/CE_31015+32015+CE_41015+42015-Geotechnical Engineering.zip</a>
Geol 31011	Civil Engineering Geology I <a href="http://www.iqytechnicalcollege.com/Geol_31011+32011-Civil_Engineering_Geology.zip">http://www.iqytechnicalcollege.com/Geol_31011+32011-Civil Engineering Geology.zip</a>

#### BE (Civil) Year 4

E-41011	English
EM-41007	Engineering Mathematics
	2-john-bird-higher-engineering-mathematics.pdf (148.48MB) <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
CE 41013	Theory of Structures I
	<a href="http://www.iqytechnicalcollege.com/CE_41013+42013+CE_51013-Theory_of_Structures.zip">http://www.iqytechnicalcollege.com/CE_41013+42013+CE_51013-Theory of Structures.zip</a>

CE 41014	Design of Timber Structures
	<a href="http://www.iqytechnicalcollege.com/CE 41014+42014-Design of Timber Structures.zip">http://www.iqytechnicalcollege.com/CE 41014+42014-Design of Timber Structures.zip</a>
CE 41015	Geotechnical Engineering III
	Soil & Rock Mechanic.pdf (10.97MB) <a href="http://www.iqytechnicalcollege.com/CE 31015+32015+CE 41015+42015-Geotechnical Engineering.zip">http://www.iqytechnicalcollege.com/CE 31015+32015+CE 41015+42015-Geotechnical Engineering.zip</a>
CE 41016	Hydraulic Engineering and Applied Hydraulics I
	<a href="http://www.iqytechnicalcollege.com/CE 41016 +42016-Hydraulic Engineering.zip">http://www.iqytechnicalcollege.com/CE 41016 +42016-Hydraulic Engineering.zip</a>
CE 41017	Transportation Engineering III
	<a href="http://www.iqytechnicalcollege.com/CE 31017+32017+CE 41017+42017-Transportation Engineering.zip">http://www.iqytechnicalcollege.com/CE 31017+32017+CE 41017+42017-Transportation Engineering.zip</a>
HSS 41011	Humanity and Social Science I

#### BE (Civil) Year 5

E-51011	English
CE 51013	Theory of Structures III
	<a href="http://www.iqytechnicalcollege.com/CE 41013+42013+CE 51013-Theory of Structures.zip">http://www.iqytechnicalcollege.com/CE 41013+42013+CE 51013-Theory of Structures.zip</a>
CE 51014	Design of Reinforced Concrete Structures I
	<a href="http://www.iqytechnicalcollege.com/CE 51014+52014-Design of Reinforced Concrete Structures.zip">http://www.iqytechnicalcollege.com/CE 51014+52014-Design of Reinforced Concrete Structures.zip</a>
CE 51012	Civil Engineering Construction Technology and Engineering Economics
	CE 52012-Business Administration=EcE-61016-Industrial Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
CE 51016	Design of Hydraulic Structures I
	<a href="http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip">http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip</a>
CE 51024	Design of Steel Structures I
	<a href="http://www.iqytechnicalcollege.com/CE 51016+52016-Design of Hydraulic Structures.zip">http://www.iqytechnicalcollege.com/CE 51016+52016-Design of Hydraulic Structures.zip</a>
CE 51018	Environmental Engineering II
	<a href="http://www.iqytechnicalcollege.com/CE 42018+CE 51018+52018-Environmental Engineering.zip">http://www.iqytechnicalcollege.com/CE 42018+CE 51018+52018-Environmental Engineering.zip</a>
CE 51022	Estimating and Specifications I
	<a href="http://www.iqytechnicalcollege.com/CE 51022+52022-Estimating and Specifications.zip">http://www.iqytechnicalcollege.com/CE 51022+52022-Estimating and Specifications.zip</a>

#### BE (Civil) Year 6

E 61011	English
CE 61019	Computer Application in Civil Engineering
	<a href="http://www.iqytechnicalcollege.com/AutoCAD1.zip">www.iqytechnicalcollege.com/AutoCAD1.zip</a>
	<a href="http://www.iqytechnicalcollege.com/AutoCAD2.zip">www.iqytechnicalcollege.com/AutoCAD2.zip</a>

## BE (Mechanical) Year 1

#### BE-Mechanical

##### Part 1

[https://mega.nz/file/dB4FWQgC#UTF0VtwSNkf\\_OncKyYzN7X7t6id6a4WCPnTB2YNkfU8](https://mega.nz/file/dB4FWQgC#UTF0VtwSNkf_OncKyYzN7X7t6id6a4WCPnTB2YNkfU8)

##### Part 2

<https://mega.nz/file/9UYIhAZA#-SZPNMcBsojLyzpX5b3t5OHvT8fuHyFIlgEwuYb5v7U>

##### Part 3

<https://mega.nz/file/kQRnQloZ#5UQX-2sa4fIKfZk-KYSxB5sWy087bMWcB6w51pTmRsE>

M 11001	Myanmar
E 11011	English
EM 11001	Engineering Mathematics I

	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I <a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
Ch 11001	Engineering Chemistry I <a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I <a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
ME 11012	Workshop Practice <a href="http://www.iqytechnicalcollege.com/ME 11012+12012-Workshop Practice.zip">http://www.iqytechnicalcollege.com/ME 11012+12012-Workshop Practice.zip</a>

#### BE (Mechanical) Year 2

E 21001	English
EM 21003	Engineering Mathematics III <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 21011	Machine Drawing <a href="http://www.iqytechnicalcollege.com/Machine Tool Practice.pdf">www.iqytechnicalcollege.com/Machine Tool Practice.pdf</a>  <a href="http://www.iqytechnicalcollege.com/Workshop.zip">www.iqytechnicalcollege.com/Workshop.zip</a>
ME 21012	Workshop Technology <a href="http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip">http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip</a>
ME 21015	Engineering Mechanics <a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>  <a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
ME 21013	Engineering Thermodynamics I <a href="http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip">http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip</a>
EP 21013	Applied Electrical Engineering <a href="http://www.iqytechnicalcollege.com/ME 11011+12011-Principle of Electrical Engineering 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME 11011+12011-Principle of Electrical Engineering 1 &amp; 2.zip</a>

#### BE (Mechanical) Year 3

E 31011	English
EM 31005	Engineering Mathematics V <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 31013	Engineering Thermodynamics II <a href="http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip">http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip</a>
ME 31014	Strength of Materials I <a href="http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip">http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip</a>

ME 31015	Theory of Machines I
	<a href="http://www.iqytechnicalcollege.com/ME 31015+32015-Theory of Machines.zip">http://www.iqytechnicalcollege.com/ME 31015+32015-Theory of Machines.zip</a>
Met 31071	Engineering Materials
	<a href="http://www.iqytechnicalcollege.com/Materials.zip">www.iqytechnicalcollege.com/Materials.zip</a>
ME 31022	Production Technology
	<a href="http://www.iqytechnicalcollege.com/ME 31022+32022-Production Technology.zip">http://www.iqytechnicalcollege.com/ME 31022+32022-Production Technology.zip</a>
EcE 31014	Basic Electronic Engineering
	<a href="http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip</a>

#### BE (Mechanical) Year 4

E 41011	English
EM 41007	Engineering Mathematics VII
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 41032	Manufacturing System and Automations
	<a href="http://www.iqytechnicalcollege.com/ME 41032+42032-Manufacturing System and Automations.zip">http://www.iqytechnicalcollege.com/ME 41032+42032-Manufacturing System and Automations.zip</a>
ME 41031	Design of Machine elements
	<a href="http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip">http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip</a>
ME 41033	Heat Transfer
	<a href="http://www.iqytechnicalcollege.com/ME 41033+42033-Heat Transfer.zip">http://www.iqytechnicalcollege.com/ME 41033+42033-Heat Transfer.zip</a>
ME 41014	Strength of Materials II
	<a href="http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip">http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip</a>
ME 41016	Fluid Mechanics I
	<a href="http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip">http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip</a>
ME 41015	Theory of Machines II
	<a href="http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip">http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip</a>
ME41042	CAD/CAM
	<a href="http://www.iqytechnicalcollege.com/ME 42042-CADCAM.zip">http://www.iqytechnicalcollege.com/ME 42042-CADCAM.zip</a>

#### BE (Mechanical) Year 5

E 51011	English
ME 51043	Gas Turbine Theory
	<a href="http://www.iqytechnicalcollege.com/ME 51043+52043-Gas Turbine Theory.zip">http://www.iqytechnicalcollege.com/ME 51043+52043-Gas Turbine Theory.zip</a>
ME 51015	Vibration and Control
	<a href="http://www.iqytechnicalcollege.com/ME 51015+52015-Vibration &amp; Control.zip">http://www.iqytechnicalcollege.com/ME 51015+52015-Vibration &amp; Control.zip</a>
ME 51017	Refrigeration and Air-conditioning
	<a href="http://www.iqytechnicalcollege.com/ME 51017+52017-Refrigeration and Air-conditioning.zip">http://www.iqytechnicalcollege.com/ME 51017+52017-Refrigeration and Air-conditioning.zip</a>
ME 51028	Industrial Engineering and Management
	<a href="http://www.iqytechnicalcollege.com/ME 51028-Industrial Engineering &amp; Management.zip">http://www.iqytechnicalcollege.com/ME 51028-Industrial Engineering &amp; Management.zip</a>
ME 51023	Internal Combustion Engines
	<a href="http://www.iqytechnicalcollege.com/ME 51023+52023-Internal Combustion Engines.zip">http://www.iqytechnicalcollege.com/ME 51023+52023-Internal Combustion Engines.zip</a>
ME 51016	Fluid Mechanics II
	<a href="http://www.iqytechnicalcollege.com/ ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip">http://www.iqytechnicalcollege.com/ ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip</a>
ME 51031	Machine Design and Project
	<a href="http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip">http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip</a>

#### BE (Mechanical) Year 6

E 61011	English
ME 61020	Renewable Energy
	<p><b>RE001 Foundation Studies in Renewable Energy</b></p> <p>Day 6 Part 1</p> <p><a href="#">Foundation Studies in Renewable Energy 1(Myanmar+English)</a></p> <p><b>Topics</b>-Climate change, solar energy, hydro energy</p> <p><a href="#">Foundation Studies in Renewable Energy 2(Myanmar+English)</a></p> <p><b>Topics</b>-Tidal Power, Design for climate</p> <p><a href="#">Foundation Studies in Renewable Energy 3(Myanmar+English)</a></p> <p><b>Topics</b>-Solar heating, Site selection, Embodied Energy</p> <p><a href="http://www.highlightcomputer.com/Day%206%20Part%201%20R001BAE523-Foundation%20Studies%20in%20Renewable%20Energy%20and%20Sustainability.zip">www.highlightcomputer.com/Day 6 Part 1 R001BAE523-Foundation Studies in Renewable Energy and Sustainability.zip</a></p>
ME 61019	Computer Application in Mech Engg
	<p><a href="http://www.iqytechnicalcollege.com/AutoCAD1.zip">www.iqytechnicalcollege.com/AutoCAD1.zip</a></p> <p><a href="http://www.iqytechnicalcollege.com/AutoCAD2.zip">www.iqytechnicalcollege.com/AutoCAD2.zip</a></p>
ME 61028	Engineering Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial%20Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
HSS 61012	Humanities and Social Science

## BE(IT) Year 1

BE-IT

<https://mega.nz/file/a01EIqJ#ojpFgQbcUFloMnbF74MQ6U9FJh-gWUKHA71-Lr2uFSc>

M 12011	Myanmar
E 12011	English
EM 12002	Engineering Mathematics II
	<p><a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering%20Mathematics%201%20&amp;%202.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a></p> <p><a href="http://www.iqytechnicalcollege.com/BAE%20401%20Advanced%20Engineering%20Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a></p> <p><a href="http://www.iqytechnicalcollege.com/BAE%20402%20Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a></p>
E.Ch 12011	Engineering Chemistry II
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering%20Chemistry%201%20&amp;%202.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering%20Physics%201%20&amp;%202.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic%20Engineering%20Drawing%201%20&amp;%202.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
IT 12013	Introduction to Computer Systems
	<p><a href="http://www.iqytechnicalcollege.com/IT%2011013+12013-Introduction%20to%20computer%20system.zip">http://www.iqytechnicalcollege.com/IT 11013+12013-Introduction to computer system.zip</a></p> <p><b>Electronic Software Tools.zip (44.49MB)</b></p> <p><a href="http://www.filefactory.com/file/13yplzweykl1n/Electronic_Software_Tools.zip">http://www.filefactory.com/file/13yplzweykl1n/Electronic_Software_Tools.zip</a></p>

BE (IT) Year 2

E 21011	English
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EM 21003	Engineering Mathematics III
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
IT 21011	Basic Electricity and Electronics
	<a href="http://www.iqytechnicalcollege.com/IT 21011+IT 22011-Basic Electricity and Electronics.zip">http://www.iqytechnicalcollege.com/IT 21011+IT 22011-Basic Electricity and Electronics.zip</a>
IT 21012	Digital Logic Design
	IT 21012+IT 22012Digital Logic Design=EcE-21021+22021-Digital Electronics 1 & 2
	<a href="http://www.iqytechnicalcollege.com/DE.zip">www.iqytechnicalcollege.com/DE.zip</a>  <a href="http://www.iqytechnicalcollege.com/Digital.zip">www.iqytechnicalcollege.com/Digital.zip</a>  <a href="http://www.iqytechnicalcollege.com/H012.zip">www.iqytechnicalcollege.com/H012.zip</a>
IT 21021	Programming Language in C++
	<b>C++ Programming.zip (21.89MB)</b> <a href="http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip">http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip</a>
IT 21051	Data Communications
	IT 21051+22051-Data Communication =EcE-31002+32002-Computer Communication 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EcE-31002+32002-Computer Communication 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31002+32002-Computer Communication 1 &amp; 2.zip</a>
IT 21041	Web Development Technologies I
	<a href="http://www.iqytechnicalcollege.com/IT 21041+22041-Web Development Technologies I.zip">http://www.iqytechnicalcollege.com/IT 21041+22041-Web Development Technologies I.zip</a>

#### BE (IT) Year 3

E 31011	English
EM 31005	Engineering Mathematics V
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
IT 31052	Computer Networking
	IT 31052+32052-Computer Networking=EcE-31002+32002-Computer Communication 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EcE-31002+32002-Computer Communication 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31002+32002-Computer Communication 1 &amp; 2.zip</a>
IT 31031	Database Management Systems
	<a href="http://www.iqytechnicalcollege.com/IT 31031+32031+IT 41032+42032-Database Management Systems.zip">http://www.iqytechnicalcollege.com/IT 31031+32031+IT 41032+42032-Database Management Systems.zip</a>
IT 31022	Programming Language in Java
	<a href="http://www.iqytechnicalcollege.com/IT 31022+32022-Programming Language in Java.zip">http://www.iqytechnicalcollege.com/IT 31022+32022-Programming Language in Java.zip</a>
IT 31023	Data Structure
	<a href="http://www.iqytechnicalcollege.com/IT 31023+32023-Data Structure.zip">http://www.iqytechnicalcollege.com/IT 31023+32023-Data Structure.zip</a>
IT 31042	Web Development Technologies I
	<a href="http://www.iqytechnicalcollege.com/IT 31042+32042-Web Development Technologies II.zip">http://www.iqytechnicalcollege.com/IT 31042+32042-Web Development Technologies II.zip</a>

#### BE (IT) Year 4

E 41011	English
EM 41016	Engineering Mathematics VII
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
IT 41024	Operating Systems

	<a href="http://www.iqytechnicalcollege.com/IT 41024+42024-Operating Systems.zip">http://www.iqytechnicalcollege.com/IT 41024+42024-Operating Systems.zip</a>
IT 41032	Advanced Data Management Techniques
	<a href="http://www.iqytechnicalcollege.com/IT 31031+32031+IT 41032+42032-Database Management Systems.zip">http://www.iqytechnicalcollege.com/IT 31031+32031+IT 41032+42032-Database Management Systems.zip</a>
IT 41053	TCP/ IP
	<a href="http://www.iqytechnicalcollege.com/IT 41053+42053-TCP-IP.zip">http://www.iqytechnicalcollege.com/IT 41053+42053-TCP-IP.zip</a>
IT 41018	Modern Control Systems
	IT 41018+42018-Modern Control System=EcE-41003+42003-Modern Control System 1 & 2
	<a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip</a> <a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip</a> <a href="http://www.iqytechnicalcollege.com/Control 1.zip">www.iqytechnicalcollege.com/Control 1.zip</a> <a href="http://www.iqytechnicalcollege.com/Control 2.zip">www.iqytechnicalcollege.com/Control 2.zip</a> <a href="http://www.iqytechnicalcollege.com/Control 3.zip">www.iqytechnicalcollege.com/Control 3.zip</a>
IT 41014	Computer Architecture
	<a href="http://www.iqytechnicalcollege.com/IT 41014+42014-Computer Architecture.zip">http://www.iqytechnicalcollege.com/IT 41014+42014-Computer Architecture.zip</a>

#### BE (IT) Year 5

E 51011	English
IT 51025	Software Engineering
	<a href="http://www.iqytechnicalcollege.com/IT 51025+52025-Software Engineering.zip">http://www.iqytechnicalcollege.com/IT 51025+52025-Software Engineering.zip</a>
IT 51015	Embedded System
	<a href="http://www.iqytechnicalcollege.com/IT 51015+52015-Embedded System.zip">http://www.iqytechnicalcollege.com/IT 51015+52015-Embedded System.zip</a>
IT 51054	Digital Signal Processing
	IT 51054+52054-Digital Signal Processing=EcE-52005-Digital Signal Processing
	<a href="http://www.iqytechnicalcollege.com/EcE-52005-Digital Signal Processing.zip">http://www.iqytechnicalcollege.com/EcE-52005-Digital Signal Processing.zip</a>
IT 51016	Computer Organization and Design
	<a href="http://www.iqytechnicalcollege.com/IT 51016+52016-Computer Organization and Design.zip">http://www.iqytechnicalcollege.com/IT 51016+52016-Computer Organization and Design.zip</a>
IT 51061	Digital Image Processing
	<a href="http://www.iqytechnicalcollege.com/IT 51061+52061-Digital Image Processing.zip">http://www.iqytechnicalcollege.com/IT 51061+52061-Digital Image Processing.zip</a>
IT 51055	Cloud Computing
	<a href="http://www.iqytechnicalcollege.com/IT 51055+52055-Cloud Computing.zip">http://www.iqytechnicalcollege.com/IT 51055+52055-Cloud Computing.zip</a>

#### BE (IT) Year 6

E 61011	English
HSS 61011	Humanities and Social Science
IT 61071	Project Management
	<a href="http://www.iqytechnicalcollege.com/IT 61071-ProjectManagement.zip">http://www.iqytechnicalcollege.com/IT 61071-ProjectManagement.zip</a>
IT 61072	Network Planning and Management
	<a href="http://www.iqytechnicalcollege.com/IT 61072-Network Planning and Management.zip">http://www.iqytechnicalcollege.com/IT 61072-Network Planning and Management.zip</a>
IT 61017	Wireless Sensor Networks
	<a href="http://www.iqytechnicalcollege.com/IT 61017 Wireless Sensor Network.zip">http://www.iqytechnicalcollege.com/IT 61017 Wireless Sensor Network.zip</a>

## BE(Mechatronics) Year 1

#### BE-Mechatronics

[https://mega.nz/file/T5knzTla#dBeKaaJh5w2aIJRb\\_j8fT40-wSveh76xy9IfSj4qNX8](https://mega.nz/file/T5knzTla#dBeKaaJh5w2aIJRb_j8fT40-wSveh76xy9IfSj4qNX8)

M 11001	Myanmar
E 11011	English
EM 11001	Engineering Mathematics I

	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
Ch 11001	Engineering Chemistry I
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
McE 11011	Introduction to Mechatronics I
	<a href="http://www.iqytechnicalcollege.com/McE 11011+12011-Introduction to Mechatronics.zip">http://www.iqytechnicalcollege.com/McE 11011+12011-Introduction to Mechatronics.zip</a>

#### BE(Mechatronics) Year 2

E 21001	English
EM 21003	Engineering Mathematics III
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 21016	Engineering Circuit Analysis I
	McE 21016+22016-Engineering Circuit Analysis =EcE-31001+32001-Engineering Circuit Analysis 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip</a>
McE-21012	Factory Control Engineering I
	Industrial Control Technology.pdf (10.5MB) <a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip</a>
McE 21015	Engineering Mechanic I
	McE 21015+22015-Engineering Mechanic=ME 21015 +22015-Engineering Mechanics
	<a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>  <a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
McE 21019	Computer Science and Programming I
	McE 21019+22019-Computer Science & Programming=IT 21021+IT 22021-Programming Language in C++
	C++ Programming.zip (21.89MB) <a href="http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip">http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip</a>
ME 21012	Workshop Technology I
	<a href="http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip">http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip</a>

#### BE(Mechatronics) Year 3

E 31011	English
EM 31005	Engineering Mathematics V
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 31026	Electronic Devices I
	McE 31026+32026-Electronic Devices=EcE-11011+12011-Fundamental of Electronic Circuits 1 & 2

	<a href="http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip</a>
McE 31036	Digital Electronics I
	McE 31036+32036-Digital Electronics=EcE-21021+22021-Digital Electronics 1 & 2
	<a href="http://www.iqytechnicalcollege.com/DE.zip">www.iqytechnicalcollege.com/DE.zip</a>
	<a href="http://www.iqytechnicalcollege.com/Digital.zip">www.iqytechnicalcollege.com/Digital.zip</a>
	<a href="http://www.iqytechnicalcollege.com/H012.zip">www.iqytechnicalcollege.com/H012.zip</a>
McE 31032	Electrical Machine and Control I
	McE 31032+32032-Electrical Machines & Control=EP-41043+42043-Electrical Machines 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip">http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip</a>
McE 31022	Programmable Logic Controller I
	McE 31022+32022-Programmable Logic Controllers=EcE-61003-PLC and SCADA Control System (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip">http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip</a>
McE 31034	Basic Thermodynamic and Strength of Material I
	<a href="http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip">http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip</a>
McE 31017	System Engineering I
	<a href="http://www.iqytechnicalcollege.com/McE 31017+32017-System Engineering.zip">http://www.iqytechnicalcollege.com/McE 31017+32017-System Engineering.zip</a>

#### BE(Mechatronics) Year 4

E 41011	English
EM 41007	Engineering Mathematics VII
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 41025	Theory of Machines I
	McE 41025+42025-Theory of Machines=ME 41015+42015-Theory of Machines
	Strength of materials.zip (97.88MB) <a href="http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip">http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip</a>
McE 41035	Design of Machine Elements I
	McE 41035+42035-Design of Machine Elements=ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design
	<a href="http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip">http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip</a>
McE 41017	Modeling and Control I
	<a href="http://www.iqytechnicalcollege.com/McE 41017+42017-Modeling and Control.zip">http://www.iqytechnicalcollege.com/McE 41017+42017-Modeling and Control.zip</a>
McE 41029	Microprocessor and Microcontroller I
	McE 41029+42029-Microprocessor and Microcontroller=EcE-52004-Microprocessor System
	<a href="http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip">http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip</a>
McE 41026	Power Electronics I
	McE 41026+42026=Power Electronics=EP 31014+32014-Power Electronics 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip</a>
HSS 41011	Humanities and Social Science I

#### BE(Mechatronics) Year 5

E 51011	English
McE 51018	Industrial Management I
	McE 51018+52018-Industrial Management=EcE-61016-Industrial Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>

McE 51017	Modern Control System I
	McE 51017+52017-Modern Control System =EcE-41003+42003-Modern Control System 1 & 2
	<a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/Control 1.zip">www.iqytechnicalcollege.com/Control 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/Control 2.zip">www.iqytechnicalcollege.com/Control 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/Control 3.zip">www.iqytechnicalcollege.com/Control 3.zip</a>
McE 51025	Dynamic of Machinery I
	McE 51025+52026-Dynamics of Machinery=ME 51015+52015-Vibration & Control
	<a href="http://www.iqytechnicalcollege.com/ME 51015+52015-Vibration &amp; Control.zip">http://www.iqytechnicalcollege.com/ME 51015+52015-Vibration &amp; Control.zip</a>
McE 51021	Robotic Analysis I
	<a href="http://www.iqytechnicalcollege.com/McE 51021+52021+McE 61021-Robotic Analysis.zip">http://www.iqytechnicalcollege.com/McE 51021+52021+McE 61021-Robotic Analysis.zip</a>
McE 51051	Machine Vision
	<a href="http://www.iqytechnicalcollege.com/McE 51051+52051-Machine Vision.zip">http://www.iqytechnicalcollege.com/McE 51051+52051-Machine Vision.zip</a>
McE 51027	Intelligent Control
	<a href="http://www.iqytechnicalcollege.com/McE 51027+52027-Intelligent Control.zip">http://www.iqytechnicalcollege.com/McE 51027+52027-Intelligent Control.zip</a>
McE 51039	Computer Integrated Manufacturing I
	<p>Form 180 ETAB+REVIT</p> <a href="http://www.iqytechnicalcollege.com/etabrevit.htm">www.iqytechnicalcollege.com/etabrevit.htm</a>  <p>Form 181 M &amp; E Software</p> <a href="http://www.iqytechnicalcollege.com/M&amp;ESoftware.htm">www.iqytechnicalcollege.com/M&amp;ESoftware.htm</a>  <p>Form 182 CAM/CNC/Master CAM</p> <a href="http://www.iqytechnicalcollege.com/mastercam.htm">www.iqytechnicalcollege.com/mastercam.htm</a>

#### BE(Mechatronics) Year 6

E 61011	English
McE 61042	Flexible Manufacturing System and Automatic Control
	<a href="http://www.iqytechnicalcollege.com/McE 61042+62042-Flexible Manufacturing System and Automatic Control.zip">http://www.iqytechnicalcollege.com/McE 61042+62042-Flexible Manufacturing System and Automatic Control.zip</a>
McE 61018	Industrial Engineering
	McE 61018-Industrial Engineering=ME 51028-Industrial Engineering & Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
McE 61031	Mechatronic System Design
	<a href="http://www.iqytechnicalcollege.com/McE 61031-Mechatronic System Design.zip">http://www.iqytechnicalcollege.com/McE 61031-Mechatronic System Design.zip</a>
McE 61021	Robotic Analysis III
	<a href="http://www.iqytechnicalcollege.com/McE 51021+52021+McE 61021-Robotic Analysis.zip">http://www.iqytechnicalcollege.com/McE 51021+52021+McE 61021-Robotic Analysis.zip</a>

#### BE(Chemical) Year 1

BE-Chemical

<https://mega.nz/file/ioMGUCYC#DOhUGxKfxPVbb1kZv2zmW7CuoamNX6kQMXSvIAEMS3U>

M 11011	Myanmar
E 11011	English
EM 11001	Engineering Mathematics I

	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
ECh11011	Engineering Chemistry I
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
ChE 11001	Organic Chemistry
	<a href="http://www.iqytechnicalcollege.com/ChE 11001+12011-Organic Chemistry.zip">http://www.iqytechnicalcollege.com/ChE 11001+12011-Organic Chemistry.zip</a>

#### BE(Chemical) Year 2

E 22011	English
EM 22004	Engineering Mathematics IV
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 22021	Machine Drawing
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
ME 22015	Engineering Mechanics
	<a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
EcE 22012	Applied Electronic Engineering
	<a href="http://www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip">www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip</a>
	<a href="http://www.iqytechnicalcollege.com/New folder.zip">www.iqytechnicalcollege.com/New folder.zip</a>
	<a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip</a>
	<a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip</a>
Met 21071	Engineering Material
	<a href="http://www.iqytechnicalcollege.com/Materials.zip">www.iqytechnicalcollege.com/Materials.zip</a>
ChE 22013	Material and Energy Balances
	<b>Materials Chemistry.pdf (23.51MB)</b>
	<a href="http://www.iqytechnicalcollege.com/Materials Chemistry.pdf">http://www.iqytechnicalcollege.com/Materials Chemistry.pdf</a>
	<a href="http://www.iqytechnicalcollege.com/ChE 32013-Physical Chemistry.zip">http://www.iqytechnicalcollege.com/ChE 32013-Physical Chemistry.zip</a>

#### BE(Chemical) Year 3

E 31011	English
EM 31005	Engineering Mathematics V

	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 31014	Strength of Materials
	<a href="http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip">http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip</a>
ChE 31012	Fluid Mechanics
	ME 204 Engineering Fluid Mechanics.pdf (5.65MB) <a href="http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip">http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip</a>
ChE 31013	Chemical Engineering Thermodynamics
	<a href="http://www.iqytechnicalcollege.com/ChE 31013+32013-Chemical Thermodynamics.zip">http://www.iqytechnicalcollege.com/ChE 31013+32013-Chemical Thermodynamics.zip</a>
ChE 31014	Elective I
ChE 31022	Heat Transfer
	<a href="http://www.iqytechnicalcollege.com/ME 41033+42033-Heat Transfer.zip">http://www.iqytechnicalcollege.com/ME 41033+42033-Heat Transfer.zip</a>

#### BE(Chemical) Year 4

E41011	English
EM 41007	Engineering Mathematics VII
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 41031	Design of Machine Elements
	<a href="http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip">http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip</a>
HSS 41011	Humanities and Social Science
ChE41024	Elective II
ChE41015	Quality Control
	<a href="http://www.iqytechnicalcollege.com/ChE41015+42015 Quality Control.zip">http://www.iqytechnicalcollege.com/ChE41015+42015 Quality Control.zip</a>
ChE41032	Mass Transfer
	Mass Transfer.pdf (2.38MB) <a href="http://www.iqytechnicalcollege.com/ChE41032+42032-Mass Transfer.zip">http://www.iqytechnicalcollege.com/ChE41032+42032-Mass Transfer.zip</a>
ChE41042	Particle Mechanics
	<a href="http://www.iqytechnicalcollege.com/ChE41042+42042-Particle Mechanics.zip">http://www.iqytechnicalcollege.com/ChE41042+42042-Particle Mechanics.zip</a>

#### BE(Chemical) Year 5

E 51001	English
ME 51028	Industrial Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
ChE 51034	Elective III
ChE51025	Instrumentation for Chemical and Automatic Process Control
	Practical-Instrumentation-for-Automation-and-Process-Control.pdf (6.91MB) <a href="http://www.iqytechnicalcollege.com/ChE51025+52025-Instrumentation for Chemical and Automatic Process Control.zip">http://www.iqytechnicalcollege.com/ChE51025+52025-Instrumentation for Chemical and Automatic Process Control.zip</a>
ChE 51052	Chemical Reaction Kinetics and Reactor Design
	<a href="http://www.iqytechnicalcollege.com/ChE 51052+52052-Chemical Reaction Kinetics and Reactor Design.zip">http://www.iqytechnicalcollege.com/ChE 51052+52052-Chemical Reaction Kinetics and Reactor Design.zip</a>
ChE 51007	Pollution Control, Maintenance and Industrial Safety
	<a href="http://www.iqytechnicalcollege.com/ChE 51007+52007-Pollution Control Maintenance and Industrial Safety.zip">http://www.iqytechnicalcollege.com/ChE 51007+52007-Pollution Control Maintenance and Industrial Safety.zip</a>
ChE 51062	Biochemical Engineering
	<a href="http://www.iqytechnicalcollege.com/ChE 51062+62062-Biochemical Engineering.zip">http://www.iqytechnicalcollege.com/ChE 51062+62062-Biochemical Engineering.zip</a>
ChE 51016	Chemical Process Design

[http://www.iqytechnicalcollege.com/ChE\\_51016+52016-Chemical Process Design.zip](http://www.iqytechnicalcollege.com/ChE_51016+52016-Chemical Process Design.zip)

## BE(Chemical) Year 6

E61011	English
IT 61024	Computer Application Software
	<a href="http://www.iqytechnicalcollege.com/M&amp;ESoftware.htm">http://www.iqytechnicalcollege.com/M&amp;ESoftware.htm</a>
ChE 61016	Plant Design and Economics for Chemical Engineers
	<a href="http://www.iqytechnicalcollege.com/ChE_61016-Plant Design and Economics for Chemical Engineers.zip">http://www.iqytechnicalcollege.com/ChE_61016-Plant Design and Economics for Chemical Engineers.zip</a>
ChE 61044	Elective IV

## BE(Petroleum) Year 1

BE-PE

[https://mega.nz/file/rgNXklxC#vp\\_XtOIPaf0sb4Y-VUKIRBB15XqY5WVVeCQq\\_-g1Q06c](https://mega.nz/file/rgNXklxC#vp_XtOIPaf0sb4Y-VUKIRBB15XqY5WVVeCQq_-g1Q06c)

M 12001	Myanmar
E 12011	English
EM 12002	Engineering Mathematics II
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
Ch 12001	Engineering Chemistry II
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
PE 12011	Principle of Petroleum Engg. PE 11011-Principle of Petroleum Engineering <a href="http://www.iqytechnicalcollege.com/PE_11011-Principle of Petroleum Engg.zip">http://www.iqytechnicalcollege.com/PE_11011-Principle of Petroleum Engg.zip</a>

## BE(Petroleum) Year 2

E 21001	English
EM 21003	Engineering Mathematics III
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME21015	Engineering Mechanic I
	<a href="http://www.iqytechnicalcollege.com/Engineering_Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/RE-Engineering_Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
EP 21013	Applied Electrical Engg.
	EcE-22001+22002-Electronic Engineering Circuit 1 & 2=EP21013 Rizzoni G. Principles and Applications of Electr(Bookos.org).pdf (9.02MB) <a href="http://www.filefactory.com/file/25oy36ly2kqj/n/[Rizzoni_G.]_Principles_and_Applications_of_Electr(Bookos.org).pdf">http://www.filefactory.com/file/25oy36ly2kqj/n/[Rizzoni_G.]_Principles_and_Applications_of_Electr(Bookos.org).pdf</a>
PE 21015	Properties of Reservoir Rocks and Fluids



	<a href="http://www.iqytechnicalcollege.com/PE 21015+22015-Properties of Reservoir Rocks and Fluids.zip">http://www.iqytechnicalcollege.com/PE 21015+22015-Properties of Reservoir Rocks and Fluids.zip</a>
PE 21002	Drilling Fluids
	<a href="http://www.iqytechnicalcollege.com/PE 21002+22002-Drilling Fluids.zip">http://www.iqytechnicalcollege.com/PE 21002+22002-Drilling Fluids.zip</a>
Geol 21002	Petroleum Geology Engineering Geology.pdf (21.09MB) <a href="http://www.iqytechnicalcollege.com/Geol 31011+32011-Civil Engineering Geology.zip">http://www.iqytechnicalcollege.com/Geol 31011+32011-Civil Engineering Geology.zip</a>

#### BE(Petroleum) Year 3

E 31011	English
EM 31005	Engineering Mathematics V <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 31014	Strength of Materials <a href="http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip">http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip</a>
ChE 31013	Chemical Engg. Thermodynamics  ME 207 Chemical thermodynamics.pdf <a href="http://www.iqytechnicalcollege.com/ME 207 Chemical thermodynamics.pdf">www.iqytechnicalcollege.com/ME 207 Chemical thermodynamics.pdf</a>
PE 31012	Drilling Engg. <a href="http://www.iqytechnicalcollege.com/PE 31012+32012-Drilling Engineering.zip">http://www.iqytechnicalcollege.com/PE 31012+32012-Drilling Engineering.zip</a>
PE 31016	Formation Evaluation <a href="http://www.iqytechnicalcollege.com/PE 31013+32013-Production Engineering.zip">http://www.iqytechnicalcollege.com/PE 31013+32013-Production Engineering.zip</a>
	post-901-1275041418.ipb.pdf (1.81MB) <a href="http://www.filefactory.com/file/2pd5xgr0tuy7/n/post-901-1275041418.ipb.pdf">http://www.filefactory.com/file/2pd5xgr0tuy7/n/post-901-1275041418.ipb.pdf</a>  140117_Wireline-Engineering-to-Elektro-UGM2.pdf (1.83MB) <a href="http://www.filefactory.com/file/6bid2qrhz9b/n/140117_Wireline-Engineering-to-Elektro-UGM2.pdf">http://www.filefactory.com/file/6bid2qrhz9b/n/140117_Wireline-Engineering-to-Elektro-UGM2.pdf</a>  H06263_Chap_06.pdf (6.69MB) <a href="http://www.filefactory.com/file/ivclu4dgs67/n/H06263_Chap_06.pdf">http://www.filefactory.com/file/ivclu4dgs67/n/H06263_Chap_06.pdf</a>
PE 31013	Production Engineering <a href="http://www.iqytechnicalcollege.com/PE 31013+32013-Production Engineering.zip">http://www.iqytechnicalcollege.com/PE 31013+32013-Production Engineering.zip</a>  Rosaler Robert C. Standard handbook of plant engineering.pdf (15.56MB) <a href="http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf">http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf</a>  Handbook of Petroleum Refining Processes.pdf (27.24MB) <a href="http://www.filefactory.com/file/6bulf818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf">http://www.filefactory.com/file/6bulf818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf</a>  Production of Biofuels and Chemicals with Ionic Liquids.pdf (4.76MB) <a href="http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf">http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf</a>

#### BE(Petroleum) Year 4

E 41011	English
EM 41007	Engineering Mathematics VII <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 41002	Introduction to Industrial Control and Programmable Logic Controller
	McE 41002+42002-Introduction to Industrial Control and Programmable Logic Controller=EcE-61003-PLC and SCADA Control System (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip">http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip</a>

PE 41044	Petroleum Refining
	<a href="http://www.iqytechnicalcollege.com/PE 31013+32013-Production Engineering.zip">http://www.iqytechnicalcollege.com/PE 31013+32013-Production Engineering.zip</a>
	<b>Handbook of Petroleum Refining Processes.pdf (27.24MB)</b> <a href="http://www.filefactory.com/file/6bufr818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf">http://www.filefactory.com/file/6bufr818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf</a> <b>Rosaler Robert C. Standard handbook of plant engineering.pdf (15.56MB)</b> <a href="http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf">http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf</a> <b>Production of Biofuels and Chemicals with Ionic Liquids.pdf (4.76MB)</b> <a href="http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf">http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf</a>
PE 41014	Natural Gas Processing
	<a href="http://www.iqytechnicalcollege.com/PE 41014+42014+Natural Gas Processing-PE 51024Natural Gas Engineering.zip">http://www.iqytechnicalcollege.com/PE 41014+42014+Natural Gas Processing-PE 51024Natural Gas Engineering.zip</a>
PE 41022	Applied Drilling Engg.
	<a href="http://www.iqytechnicalcollege.com/PE 41022+42022-Applied Drilling Engineering.zip">http://www.iqytechnicalcollege.com/PE 41022+42022-Applied Drilling Engineering.zip</a>
	<b>TREX-41559.pdf (44.42MB)</b> <a href="http://www.filefactory.com/file/5zo0drxxaj6l/n/TREX-41559.pdf">http://www.filefactory.com/file/5zo0drxxaj6l/n/TREX-41559.pdf</a>
PE 41023	Well Completion and Servicing
	<a href="http://www.iqytechnicalcollege.com/PE 41023+42023-Well Completion and Servicing.zip">http://www.iqytechnicalcollege.com/PE 41023+42023-Well Completion and Servicing.zip</a>
HSS 41012	Humanities and Social Science
PE 41035	Applied Reservoir Engg.
	<a href="http://www.iqytechnicalcollege.com/PE 41035+52035-Applied Reservoir Engg.zip">http://www.iqytechnicalcollege.com/PE 41035+52035-Applied Reservoir Engg.zip</a>

#### BE(Petroleum) Year 5

E 51011	English
PE 51045	Petroleum Reservoir Engg.
	<a href="http://www.iqytechnicalcollege.com/PE 51045+52045-Petroleum Reservoir Engineering.zip">http://www.iqytechnicalcollege.com/PE 51045+52045-Petroleum Reservoir Engineering.zip</a>
PE 51017	Offshore Engg.
	<a href="http://www.iqytechnicalcollege.com/PE 51017+52017-Offshore Engineering.zip">http://www.iqytechnicalcollege.com/PE 51017+52017-Offshore Engineering.zip</a>
PE 51028	Management for Petroleum Engg.
	PE 51028+52028-Management for Petroleum Engg=EcE-61016-Industrial Management
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
PE 51026	Transportation of Oil and Gas
	<a href="http://www.iqytechnicalcollege.com/PE 51026+52026-Transportation of Gas &amp; Oil.zip">http://www.iqytechnicalcollege.com/PE 51026+52026-Transportation of Gas &amp; Oil.zip</a>
PE 51024	Natural Gas Engineering
	<a href="http://www.iqytechnicalcollege.com/PE 41014+42014+Natural Gas Processing-PE 51024Natural Gas Engineering.zip">http://www.iqytechnicalcollege.com/PE 41014+42014+Natural Gas Processing-PE 51024Natural Gas Engineering.zip</a>

#### BE(Petroleum) Year 6

E 61011	English
PE 61018	Petroleum Economics
	<a href="http://www.iqytechnicalcollege.com/PE 61018-Petroleum Economics.zip">http://www.iqytechnicalcollege.com/PE 61018-Petroleum Economics.zip</a>
	<b>e6-193-21.pdf (0.26MB)</b> <a href="http://www.filefactory.com/file/2oeandsxz5bx/n/e6-193-21.pdf">http://www.filefactory.com/file/2oeandsxz5bx/n/e6-193-21.pdf</a> <b>(4)Chapter 1 Petroleum Accounting-5th Part2.pdf (0.04MB)</b> <a href="http://www.filefactory.com/file/76ktqx08ahz5/n/(4)Chapter_1_Petroleum_Accounting-5th_Part2.pdf">http://www.filefactory.com/file/76ktqx08ahz5/n/(4)Chapter_1_Petroleum_Accounting-5th_Part2.pdf</a>
PE 61056	Computer Application for Petroleum Engineering
	<a href="http://www.iqytechnicalcollege.com/M&amp;ESoftware.htm">http://www.iqytechnicalcollege.com/M&amp;ESoftware.htm</a>
PE 61034	Well Testing
	<b>introductory-well-testing.pdf (4.09MB)</b> <a href="http://www.iqytechnicalcollege.com/PE 61034-Well Testing.zip">http://www.iqytechnicalcollege.com/PE 61034-Well Testing.zip</a>
PE 61028	Management for Production Methods
	PE 61028-Management for production methods=EcE-61016-Industrial Management

	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
PE 61033	Enhanced Oil Recovery <a href="http://www.iqytechnicalcollege.com/PE 61033-Enhanced Oil Recovery.zip">http://www.iqytechnicalcollege.com/PE 61033-Enhanced Oil Recovery.zip</a>

## Architectural Engineering

BE Architecture

[https://mega.nz/file/2ltThSoJ#KsBLVYtTF\\_bLqlaqsbFZa-3HnssKlgi00VmH-WhuSQQ](https://mega.nz/file/2ltThSoJ#KsBLVYtTF_bLqlaqsbFZa-3HnssKlgi00VmH-WhuSQQ)

(First three years common with BE-Civil)

### Year 1 BE (Architectural Engineering)

M-11011	Myanmar
E-11011	English
EM-11001	Engineering Mathematics <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ch.11011	Engineering Chemistry <a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
E.Ph-11011	Engineering Physics I <a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I <a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
CE 11022	Building Materials & Construction <a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4</a>  <a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6</a>  <a href="http://www.iqytechnicalcollege.com/Construction.zip">www.iqytechnicalcollege.com/Construction.zip</a>

### BE (Architectural Engineering) Year 2

E-22011	English
EM-22004	Engineering Mathematics <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME-22015	Engineering Mechanics <a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>  <a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
EP 22011	Applied Electrical Engineering <a href="http://www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip">www.iqytechnicalcollege.com/16-289a-Electronics+Ckt.zip</a>  <a href="http://www.iqytechnicalcollege.com/New folder.zip">www.iqytechnicalcollege.com/New folder.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 1.zip</a>  <a href="http://www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip">www.iqytechnicalcollege.com/2-82-Electronic Design 2.zip</a>
CE 22011	Surveying II

	<a href="http://www.iqytechnicalcollege.com/CE 21011+22011+CE-31011+32011-Surveying.zip">http://www.iqytechnicalcollege.com/CE 21011+22011+CE-31011+32011-Surveying.zip</a>
CE 22012	Civil Engineering Drawing II
	<a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z4</a> <a href="http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6">http://www.iqytechnicalcollege.com/advdipcivilengg.htm#z6</a>
CE 22019	Workshop Technologies & Practices II CE 21019+22019-Workshop Technologies & Practices=ME 21012 +22012-Workshop Technology <a href="http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip">http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip</a>

### BE (Architectural Engineering) Year 3

E-31011	English
EM-31005	Engineering Mathematics
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a> <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a> <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
CE-31011	Surveying III
	<a href="http://www.iqytechnicalcollege.com/CE 21011+22011+CE-31011+32011-Surveying.zip">http://www.iqytechnicalcollege.com/CE 21011+22011+CE-31011+32011-Surveying.zip</a>
CE 31013	Mechanics of Materials I
	<a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a> <a href="http://www.iqytechnicalcollege.com/Materials.zip">www.iqytechnicalcollege.com/Materials.zip</a> <a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
CE 31016	Fluid Mechanics I
	CE 31016+32016-Fluid Mechanics=ME 41016+42016+ME 51016+52016-Fluid Mechanics <a href="http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip">http://www.iqytechnicalcollege.com/ME 41016+42016+ME 51016+52016-Fluid Mechanics.zip</a>
CE 31017	Transportation Engineering I
	<a href="http://www.iqytechnicalcollege.com/CE 31017+32017+CE 41017+42017-Transportation Engineering.zip">http://www.iqytechnicalcollege.com/CE 31017+32017+CE 41017+42017-Transportation Engineering.zip</a>
CE 31015	Geotechnical Engineering I
	<a href="http://www.iqytechnicalcollege.com/CE 31015+32015+CE 41015+42015-Geotechnical Engineering.zip">http://www.iqytechnicalcollege.com/CE 31015+32015+CE 41015+42015-Geotechnical Engineering.zip</a>
Geol 31011	Civil Engineering Geology I Engineering Geology.pdf (21.09MB) <a href="http://www.iqytechnicalcollege.com/Geol 31011+32011-Civil Engineering Geology.zip">http://www.iqytechnicalcollege.com/Geol 31011+32011-Civil Engineering Geology.zip</a>

### Year 4 BE (Architectural Engineering)

[AchE401 Architecture Theory](#)

[AchE402 Architectural Design](#)

[AchE403 Building Construction](#)

[AchE404 Building Services](#)

[AchE405 Construction Materials](#)

[AchE406 Sustainable Building Design](#)

[AchE407 Architectural Drafting](#)

[AchE408 Construction Quantity Surveying](#)

## Year 5 BE (Architectural Engineering)

[AchE501 Architectural Management](#)

[AchE502 Interior Design](#)

[AchE503 Green Building Design](#)

[AchE504 Construction Contract](#)

[AchE505 Solar Architecture & Smart House Design](#)

[AchE506 Architecture Commercial Design](#)

[AchE507 Urban Design](#)

[AE508 Landscape Design](#)

## Year 6 BE (Architectural Engineering)

[AchE601 Architectural Design & Ethics](#)

[AchE602 Building Survey & Reporting](#)

[AchE603 Building Control Systems](#)

[AchE604 Sustainable Architecture](#)

## Metallurgical & Material Engineering

BE-Metallurgy

<https://mega.nz/file/Dkkxybpl#osgm-diFwgFtgj54eAVr5U56wIRP7bp8ZIDymHG0XRQ>

(First three years common with BE-Mechanical)

### Year 1 BE (Metallurgy & Materials)

M 11001	Myanmar
E 11011	English
EM 11001	Engineering Mathematics I
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>

Ch 11001	Engineering Chemistry I
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering_Chemistry_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering_Chemistry_1_&amp;_2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic_Engineering_Drawing_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic_Engineering_Drawing_1_&amp;_2.zip</a>
ME 11012	Workshop Practice
	<a href="http://www.iqytechnicalcollege.com/ME_11012+12012-Workshop_Practice.zip">http://www.iqytechnicalcollege.com/ME_11012+12012-Workshop_Practice.zip</a>

## Year 2 BE (Metallurgy & Materials)

E 21001	English
EM 21003	Engineering Mathematics III
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 21011	Machine Drawing
	<a href="http://www.iqytechnicalcollege.com/Machine_Tool_Practice.pdf">www.iqytechnicalcollege.com/Machine Tool Practice.pdf</a>
	<a href="http://www.iqytechnicalcollege.com/Workshop.zip">www.iqytechnicalcollege.com/Workshop.zip</a>
ME 21012	Workshop Technology
	<a href="http://www.iqytechnicalcollege.com/ME_21012_+22012-Workshop_Technology.zip">http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip</a>
ME 21015	Engineering Mechanics
	<a href="http://www.iqytechnicalcollege.com/Engineering_Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/RE-Engineering_Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
ME 21013	Engineering Thermodynamics I
	<a href="http://www.iqytechnicalcollege.com/ME_21013_+22012+ME_31013+32013-Engineering_Thermodynamics.zip">http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip</a>
EP 21013	Applied Electrical Engineering
	<a href="http://www.iqytechnicalcollege.com/ME_11011+12011-Principle_of_Electrical_Engineering_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/ME 11011+12011-Principle of Electrical Engineering 1 &amp; 2.zip</a>

## Year 3 BE (Metallurgy & Materials)

E 31011	English
EM 31005	Engineering Mathematics V
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 31013	Engineering Thermodynamics II
	<a href="http://www.iqytechnicalcollege.com/ME_21013_+22012+ME_31013+32013-Engineering_Thermodynamics.zip">http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip</a>
ME 31014	Strength of Materials I
	<a href="http://www.iqytechnicalcollege.com/ME_31014+32014+ME_41014+42014-Strength_of_Materials.zip">http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip</a>
ME 31015	Theory of Machines I
	<a href="http://www.iqytechnicalcollege.com/ME_31015+32015-Theory_of_Machines.zip">http://www.iqytechnicalcollege.com/ME 31015+32015-Theory of Machines.zip</a>
Met 31071	Engineering Materials
	<a href="http://www.iqytechnicalcollege.com/Materials.zip">www.iqytechnicalcollege.com/Materials.zip</a>
ME 31022	Production Technology
	<a href="http://www.iqytechnicalcollege.com/ME_31022+32022-Production_Technology.zip">http://www.iqytechnicalcollege.com/ME 31022+32022-Production Technology.zip</a>
EcE 31014	Basic Electronic Engineering

## Year 4 BE (Metallurgy & Materials)

Met 401 Mechanical Properties of Metals

<http://www.iqytechnicalcollege.com/Met401 Mechanical Estimating.zip>

Met 402 Metallurgical Engineering Alloys

<http://www.iqytechnicalcollege.com/Met402 Mechanical Propertises of Metals.zip>

Met 403 Metallurgy Principle

[www.iqytechnicalcollege.com/Met403 Metallurgy.zip](http://www.iqytechnicalcollege.com/Met403 Metallurgy.zip)

Met 404 Metallurgy

<http://www.iqytechnicalcollege.com/Met404 Engineered Metals.zip>

Met 405 Powdered Metallurgy

<http://www.iqytechnicalcollege.com/Met405 Metallurgical Alloys.zip>

Met 407 Stress Assessment in Metallurgy 1

<http://www.iqytechnicalcollege.com/Met407 Stress Assesment in Metallurgy.zip>

Met 408 Metallic Materials

<http://www.iqytechnicalcollege.com/Met408 Metallic Materials.zip>

E 41011	English
EM 41007	Engineering Mathematics VII
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>
	<a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 41032	Manufacturing System and Automations
	<a href="http://www.iqytechnicalcollege.com/ME 41032+42032-Manufacturing System and Automations.zip">http://www.iqytechnicalcollege.com/ME 41032+42032-Manufacturing System and Automations.zip</a>
ME 41031	Design of Machine elements
	<a href="http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip">http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip</a>

## Year 5 BE (Metallurgy & Materials) common to BE (Minerals Extraction & Explosion Protection)

Met501 Mechanical Estimating

<http://www.iqytechnicalcollege.com/Met501 Mechanical Estimating.zip>

Met502 Mechanical Properties of Metals

<http://www.iqytechnicalcollege.com/Met502 Mechanical Propertises of Metals.zip>

Met503 Metallurgy

[http://www.iqytechnicalcollege.com/Met503 Metallurgy.zip](http://www.iqytechnicalcollege.com/Met503%20Metallurgy.zip)

Met504 Engineered Metals

[http://www.iqytechnicalcollege.com/Met504 Engineered Metals.zip](http://www.iqytechnicalcollege.com/Met504%20Engineered%20Metals.zip)

Met505 Metallurgical Alloys

[http://www.iqytechnicalcollege.com/Met505 Metallurgical Alloys.zip](http://www.iqytechnicalcollege.com/Met505%20Metallurgical%20Alloys.zip)

Met507 Explosive Engineering

[http://www.iqytechnicalcollege.com/Met507 Explosive Engineering.zip](http://www.iqytechnicalcollege.com/Met507%20Explosive%20Engineering.zip)

Met508 Metallic Materials

[http://www.iqytechnicalcollege.com/Met508 Metallic Materials.zip](http://www.iqytechnicalcollege.com/Met508%20Metallic%20Materials.zip)

Met509 Stress Assessment in Metallurgy 2

[http://www.iqytechnicalcollege.com/Met509 Stress Assesment in Metallurgy.zip](http://www.iqytechnicalcollege.com/Met509%20Stress%20Assesment%20in%20Metallurgy.zip)

### **Year 6 BE (Metallurgy & Materials) common to BE (Minerals Extraction & Explosion Protection)**

Met601 Metallurgical Processing

[http://www.iqytechnicalcollege.com/Met601 Metallurgical Processing.zip](http://www.iqytechnicalcollege.com/Met601%20Metallurgical%20Processing.zip)

Met602 Machineries Failure Analysis

[http://www.iqytechnicalcollege.com/Met602 Machineries Failure Analysis.zip](http://www.iqytechnicalcollege.com/Met602%20Machineries%20Failure%20Analysis.zip)

Met603 Materials Selection in Mechanical Design

[http://www.iqytechnicalcollege.com/Met603 Materials Selection in Mechanical Design.zip](http://www.iqytechnicalcollege.com/Met603%20Materials%20Selection%20in%20Mechanical%20Design.zip)

Met604 Strain Testing

[http://www.iqytechnicalcollege.com/Met604 Strain Testing.zip](http://www.iqytechnicalcollege.com/Met604%20Strain%20Testing.zip)

Met605 Applied Metallurgy

[http://www.iqytechnicalcollege.com/Met605 Applied Metallurgy.zip](http://www.iqytechnicalcollege.com/Met605%20Applied%20Metallurgy.zip)

Met606 Metals Extraction

[http://www.iqytechnicalcollege.com/Met606 Metals Extraction.zip](http://www.iqytechnicalcollege.com/Met606%20Metals%20Extraction.zip)

## **Marine Electrical & Electronics Engineering**

(First four years common with BE-Mechatronics)

BE –Marine Electrical

[https://mega.nz/file/LodUiCRL#egi-vR1PiP389kwrBZ1WWwFBUzPzXDBF\\_26vNQa2J\\_s](https://mega.nz/file/LodUiCRL#egi-vR1PiP389kwrBZ1WWwFBUzPzXDBF_26vNQa2J_s)

### **Year 1 BE (Marine Electrical & Electronics)**

M 11001	Myanmar
E 11011	English
EM 11001	Engineering Mathematics I



	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
Ch 11001	Engineering Chemistry I
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
McE 11011	Introduction to Mechatronics I
	<a href="http://www.iqytechnicalcollege.com/McE 11011+12011-Introduction to Mechatronics.zip">http://www.iqytechnicalcollege.com/McE 11011+12011-Introduction to Mechatronics.zip</a>

## Year 2 BE (Marine Electrical & Electronics)

E 21001	English
EM 21003	Engineering Mathematics III
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 21016	Engineering Circuit Analysis I
	McE 21016+22016-Engineering Circuit Analysis =EcE-31001+32001-Engineering Circuit Analysis 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip</a>
McE-21012	Factory Control Engineering I
	<b>Industrial Control Technology.pdf (10.5MB)</b> <a href="http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip">http://www.iqytechnicalcollege.com/BAE 502 Linear System + BAE 503 Control System 1.zip</a>
McE 21015	Engineering Mechanic I
	McE 21015+22015-Engineering Mechanic=ME 21015 +22015-Engineering Mechanics
	<a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>  <a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
McE 21019	Computer Science and Programming I
	McE 21019+22019-Computer Science & Programming=IT 21021+IT 22021-Programming Language in C++
	<b>C++ Programming.zip (21.89MB)</b> <a href="http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip">http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip</a>
ME 21012	Workshop Technology I
	<a href="http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip">http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip</a>

## Year 3 BE (Marine Electrical & Electronics)

E 31011	English
EM 31005	Engineering Mathematics V

	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 31026	Electronic Devices I
	McE 31026+32026-Electronic Devices=EcE-11011+12011-Fundamental of Electronic Circuits 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip</a>
McE 31036	Digital Electronics I
	McE 31036+32036-Digital Electronics=EcE-21021+22021-Digital Electronics 1 & 2
	<a href="http://www.iqytechnicalcollege.com/DE.zip">www.iqytechnicalcollege.com/DE.zip</a>  <a href="http://www.iqytechnicalcollege.com/Digital.zip">www.iqytechnicalcollege.com/Digital.zip</a>  <a href="http://www.iqytechnicalcollege.com/H012.zip">www.iqytechnicalcollege.com/H012.zip</a>
McE 31032	Electrical Machine and Control I
	McE 31032+32032-Electrical Machines & Control=EP-41043+42043-Electrical Machines 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip">http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip</a>
McE 31022	Programmable Logic Controller I
	McE 31022+32022-Programmable Logic Controllers=EcE-61003-PLC and SCADA Control System (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip">http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip</a>
McE 31034	Basic Thermodynamic and Strength of Material I
	<a href="http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip">http://www.iqytechnicalcollege.com/ME 21013 +22012+ME 31013+32013-Engineering Thermodynamics.zip</a>
McE 31017	System Engineering I
	<a href="http://www.iqytechnicalcollege.com/McE 31017+32017-System Engineering.zip">http://www.iqytechnicalcollege.com/McE 31017+32017-System Engineering.zip</a>

## Year 4 BE (Marine Electrical & Electronics)

E 41011	English
EM 41007	Engineering Mathematics VII
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 41025	Theory of Machines I
	McE 41025+42025-Theory of Machines=ME 41015+42015-Theory of Machines
	Strength of materials.zip (97.88MB) <a href="http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip">http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip</a>
McE 41035	Design of Machine Elements I
	McE 41035+42035-Design of Machine Elements=ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design
	<a href="http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip">http://www.iqytechnicalcollege.com/ME 41031+42031+ME 51031+52031-Design of Machine elements+Machine Design.zip</a>
McE 41017	Modeling and Control I
	<a href="http://www.iqytechnicalcollege.com/McE 41017+42017-Modeling and Control.zip">http://www.iqytechnicalcollege.com/McE 41017+42017-Modeling and Control.zip</a>
McE 41029	Microprocessor and Microcontroller I
	McE 41029+42029-Microprocessor and Microcontroller=EcE-52004-Microprocessor System
	<a href="http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip">http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip</a>
McE 41026	Power Electronics I
	McE 41026+42026=Power Electronics=EP 31014+32014-Power Electronics 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip</a>

## Year 5 BE (Marine Electrical & Electronics)

### COURSE OUTLINE + RESOURCES DOWNLOAD LINK

Year 5 Course Outline+ Resources Click [HERE](#)  
<http://www.iqytechnicalcollege.com/mareng.htm>

### Naval Architecture (Related study)

<http://www.iqytechnicalcollege.com/ProfDipNavalArchEngg.htm>

Naval Architecture

Dip Mar E (2.8GB)

[https://mega.nz/file/lrhnlD5Y#Gg8nUhnfU7nYuA3bwIRCoh6FrIkB5W5Eu4KTSg\\_iZJ4](https://mega.nz/file/lrhnlD5Y#Gg8nUhnfU7nYuA3bwIRCoh6FrIkB5W5Eu4KTSg_iZJ4)

+

<https://mega.nz/file/Nx8BhYhb#YNE2VXqlZNZ8ys2wltgtyMFVZUVBh5PkiaME9GvJwbs>

## Year 6 BE (Marine Electrical & Electronics)

Marine Electrical System. Click the following link.

[www.mongroupsdney1.com/navy.htm](http://www.mongroupsdney1.com/navy.htm)

### Form198 Marine Electrical System

[www.iqytechnicalcollege.com/Form198MarineElectricalSystem.htm](http://www.iqytechnicalcollege.com/Form198MarineElectricalSystem.htm)

## Mineral Extraction & Explosion Protection Engineering

(First four years common with BE-Petroleum)

### Year 1 BE (Mineral Extraction & Explosion Protection)

M 12001	Myanmar
E 12011	English
EM 12002	Engineering Mathematics II
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering_Physics_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering_Physics_1_&amp;_2.zip</a>
Ch 12001	Engineering Chemistry II
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering_Chemistry_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering_Chemistry_1_&amp;_2.zip</a>

ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
PE 12011	Principle of Petroleum Engg. PE 11011-Principle of Petroleum Engineering <a href="http://www.iqytechnicalcollege.com/PE 11011-Principle of Petroleum Engg.zip">http://www.iqytechnicalcollege.com/PE 11011-Principle of Petroleum Engg.zip</a>

## Year 2 BE (Mineral Extraction & Explosion Protection)

E 21001	English
EM 21003	Engineering Mathematics III
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME21015	Engineering Mechanic I
	<a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>  <a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
EP 21013	Applied Electrical Engg.
	EcE-22001+22002-Electronic Engineering Circuit 1 & 2=EP21013 Rizzoni G.] Principles and Applications of Electr(Bookos.org).pdf (9.02MB) <a href="http://www.filefactory.com/file/25oy36ly2kqj/n/[Rizzoni_G.]_Principles_and_Applications_of_Electr(Bookos.org).pdf">http://www.filefactory.com/file/25oy36ly2kqj/n/[Rizzoni_G.]_Principles_and_Applications_of_Electr(Bookos.org).pdf</a>
PE 21015	Properties of Reservoir Rocks and Fluids
	<a href="http://www.iqytechnicalcollege.com/PE 21015+22015-Properties of Reservoir Rocks and Fluids.zip">http://www.iqytechnicalcollege.com/PE 21015+22015-Properties of Reservoir Rocks and Fluids.zip</a>
PE 21002	Drilling Fluids
	<a href="http://www.iqytechnicalcollege.com/PE 21002+22002-Drilling Fluids.zip">http://www.iqytechnicalcollege.com/PE 21002+22002-Drilling Fluids.zip</a>
Geol 21002	Petroleum Geology Engineering Geology.pdf (21.09MB) <a href="http://www.filefactory.com/file/4lwhnhs9j6tb/n/Engineering_Geology.pdf">http://www.filefactory.com/file/4lwhnhs9j6tb/n/Engineering_Geology.pdf</a>

## Year 3 BE (Mineral Extraction & Explosion Protection)

E 31011	English
EM 31005	Engineering Mathematics V
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
ME 31014	Strength of Materials
	<a href="http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip">http://www.iqytechnicalcollege.com/ME 31014+32014+ME 41014+42014-Strength of Materials.zip</a>
ChE 31013	Chemical Engg. Thermodynamics
	ME 207 Chemical thermodynamics.pdf <a href="http://www.iqytechnicalcollege.com/ME 207 Chemical thermodynamics.pdf">www.iqytechnicalcollege.com/ME 207 Chemical thermodynamics.pdf</a>
PE 31012	Drilling Engg.
	<a href="http://www.iqytechnicalcollege.com/PE 31012+32012-Drilling Engineering.zip">http://www.iqytechnicalcollege.com/PE 31012+32012-Drilling Engineering.zip</a>
PE 31016	Formation Evaluation

	<p>post-901-1275041418.ipb.pdf (1.81MB)  <a href="http://www.filefactory.com/file/2pd5xgr0tuy7/n/post-901-1275041418.ipb.pdf">http://www.filefactory.com/file/2pd5xgr0tuy7/n/post-901-1275041418.ipb.pdf</a></p> <p>140117_Wireline-Engineering-to-Elektro-UGM2.pdf (1.83MB)  <a href="http://www.filefactory.com/file/6bidl2qrhz9b/n/140117_Wireline-Engineering-to-Elektro-UGM2.pdf">http://www.filefactory.com/file/6bidl2qrhz9b/n/140117_Wireline-Engineering-to-Elektro-UGM2.pdf</a></p> <p>H06263_Chap_06.pdf (6.69MB)  <a href="http://www.filefactory.com/file/ivclu4dgs67/n/H06263_Chap_06.pdf">http://www.filefactory.com/file/ivclu4dgs67/n/H06263_Chap_06.pdf</a></p>
PE 31013	<p>Production Engineering</p> <p>Rosaler Robert C. Standard handbook of plant engineering.pdf (15.56MB)  <a href="http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf">http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf</a></p> <p>Handbook of Petroleum Refining Processes.pdf (27.24MB)  <a href="http://www.filefactory.com/file/6bufr818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf">http://www.filefactory.com/file/6bufr818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf</a></p> <p>Production of Biofuels and Chemicals with Ionic Liquids.pdf (4.76MB)  <a href="http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf">http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf</a></p>

## Year 4 BE (Mineral Extraction & Explosion Protection)

E 41011	English
EM 41007	<p>Engineering Mathematics VII</p> <p><a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering_Mathematics_1_&amp;_2.zip</a></p> <p><a href="http://www.iqytechnicalcollege.com/BAE_401_Advanced_Engineering_Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a></p> <p><a href="http://www.iqytechnicalcollege.com/BAE_402_Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a></p>
McE 41002	Introduction to Industrial Control and Programmable Logic Controller
	McE 41002+42002-Introduction to Industrial Control and Programmable Logic Controller=EcE-61003-PLC and SCADA Control System (Project)
	<a href="http://www.iqytechnicalcollege.com/EcE-61003-PLC_and_SCADA_Control_System_(Project).zip">http://www.iqytechnicalcollege.com/EcE-61003-PLC and SCADA Control System (Project).zip</a>
PE 41044	Petroleum Refining
	<p>Handbook of Petroleum Refining Processes.pdf (27.24MB)  <a href="http://www.filefactory.com/file/6bufr818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf">http://www.filefactory.com/file/6bufr818gvx/n/Handbook_of_Petroleum_Refining_Processes.pdf</a></p> <p>Rosaler Robert C. Standard handbook of plant engineering.pdf (15.56MB)  <a href="http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf">http://www.filefactory.com/file/428d1661zuap/n/Rosaler_Robert_C._Standard_handbook_of_plant_engineering.pdf</a></p> <p>Production of Biofuels and Chemicals with Ionic Liquids.pdf (4.76MB)  <a href="http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf">http://www.filefactory.com/file/747ky2etff7h/n/Production_of_Biofuels_and_Chemicals_with_Ionic_Liquids.pdf</a></p>
PE 41014	Natural Gas Processing
	<a href="http://www.iqytechnicalcollege.com/PE_41014+42014+Natural_Gas_Processing-PE_51024Natural_Gas_Engineering.zip">http://www.iqytechnicalcollege.com/PE 41014+42014+Natural Gas Processing-PE 51024Natural Gas Engineering.zip</a>
PE 41022	Applied Drilling Engg.
	<p>TREX-41559.pdf (44.42MB)  <a href="http://www.filefactory.com/file/5zo0drxxaj6l/n/TREX-41559.pdf">http://www.filefactory.com/file/5zo0drxxaj6l/n/TREX-41559.pdf</a></p>
PE 41023	Well Completion and Servicing
	<a href="http://www.iqytechnicalcollege.com/PE_41023+42023-Well_Completion_and_Servicing.zip">http://www.iqytechnicalcollege.com/PE 41023+42023-Well Completion and Servicing.zip</a>
HSS 41012	Humanities and Social Science
PE 41035	Applied Reservoir Engg.
	<a href="http://www.iqytechnicalcollege.com/PE_41035+52035-Applied_Reservoir_Engg.zip">http://www.iqytechnicalcollege.com/PE 41035+52035-Applied Reservoir Engg.zip</a>

## Year 5 BE (Metallurgy & Materials) common to BE (Minerals Extraction & Explosion Protection)

Met501 Mechanical Estimating

[http://www.iqytechnicalcollege.com/Met501\\_Mechanical\\_Estimating.zip](http://www.iqytechnicalcollege.com/Met501_Mechanical_Estimating.zip)

Met502 Mechanical Properties of Metals

[http://www.iqytechnicalcollege.com/Met502\\_Mechanical\\_Properties\\_of\\_Metals.zip](http://www.iqytechnicalcollege.com/Met502_Mechanical_Properties_of_Metals.zip)

Met503 Metallurgy

[http://www.iqytechnicalcollege.com/Met503\\_Metallurgy.zip](http://www.iqytechnicalcollege.com/Met503_Metallurgy.zip)

Met504 Engineered Metals

<http://www.iqytechnicalcollege.com/Met504 Engineered Metals.zip>

Met505 Metallurgical Alloys

<http://www.iqytechnicalcollege.com/Met505 Metallurgical Alloys.zip>

Met507 Explosive Engineering

<http://www.iqytechnicalcollege.com/Met507 Explosive Engineering.zip>

Met508 Metallic Materials

<http://www.iqytechnicalcollege.com/Met508 Metallic Materials.zip>

Met509 Stress Assessment in Metallurgy 2

<http://www.iqytechnicalcollege.com/Met509 Stress Assesment in Metallurgy.zip>

**Year 6 BE (Minerals Extraction & Explosion Protection)**

## **Explosion Protection**

### **Lessons+ References**

Professional Diploma in Hazardous Safety Engineering

[www.highlightcomputer.com/profdiphazardous.htm](http://www.highlightcomputer.com/profdiphazardous.htm)

Professional Diploma in Hazardous Safety Engineering

<https://mega.nz/file/pwczAYRC#vXyopqhc2bLx2UKBnRTtoJO-0C7NgoJTYGUwU6otqMrQ>

### **Course Outline**

Hazardous Safety Engineering

It consists of 8 units with each 5 credits.

BAE 631E Maintenance & Repair Works in Hazardous Areas

[www.thespeukinternational.org/BAE631.zip](http://www.thespeukinternational.org/BAE631.zip)

BAE 632E Electrical Wiring in Hazardous Areas

[www.thespeukinternational.org/BAE632.zip](http://www.thespeukinternational.org/BAE632.zip)

BAE 633E Hazardous Area Safety Audits

[www.thespeukinternational.org/BAE633.zip](http://www.thespeukinternational.org/BAE633.zip)

BAE 634 Explosion Protection

[www.thespeukinternational.org/BAE634.zip](http://www.thespeukinternational.org/BAE634.zip)

BAE 635E Testing in Hazardous Areas

[www.thespeukinternational.org/BAE635.zip](http://www.thespeukinternational.org/BAE635.zip)

BAE 636 E Hazardous Area Inspection

[www.thespeukinternational.org/BAE636.zip](http://www.thespeukinternational.org/BAE636.zip)

BAE 637E Hazardous Chemical Management  
[www.thespeukinternational.org/BAE637.zip](http://www.thespeukinternational.org/BAE637.zip)

BAE 638E Environmental Engineering in Hazardous Areas  
[www.thespeukinternational.org/BAE638.zip](http://www.thespeukinternational.org/BAE638.zip)

## Renewable Energy Engineering

RE (1.78GB)

<https://mega.nz/file/Q2AjmSLB#-WEhjWI47z5Dszae2lwGGv9IcbprRASQFUPjr7Vjrc8>

BE (RE) Year 1

M 11001	Myanmar
E 11011	English
EM 11001	Engineering Mathematics I
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
E.Ph-11011	Engineering Physics I
	<a href="http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ph-11011+12011-Engineering Physics 1 &amp; 2.zip</a>
Ch 11001	Engineering Chemistry I
	<a href="http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/E.Ch-11011+12011-Engineering Chemistry 1 &amp; 2.zip</a>
ME-11011	Basic Engineering Drawing I
	<a href="http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/ME-11011-Basic Engineering Drawing 1 &amp; 2.zip</a>
RE 11011	Introduction to Sustainable Energy (RE107)(RE001)
	<b>RE001 Foundation Studies in Renewable Energy</b> Day 6 Part 1 <a href="#">Foundation Studies in Renewable Energy 1(Myanmar+English)</a> <b>Topics</b> -Climate change, solar energy, hydro energy  <a href="#">Foundation Studies in Renewable Energy 2(Myanmar+English)</a> <b>Topics</b> -Tidal Power, Design for climate  <a href="#">Foundation Studies in Renewable Energy 3(Myanmar+English)</a> <b>Topics</b> -Solar heating, Site selection, Embodied Energy  <b>Day 6 Part 1</b> <b>RE001- Foundation Studies in Renewable Energy and Sustainability /BAE 523A Environmental Engineering (Civil)</b> <a href="http://www.highlightcomputer.com/Day 6 Part 1 R001BAE523-Foundation Studies in Renewable Energy and Sustainability.zip">www.highlightcomputer.com/Day 6 Part 1 R001BAE523-Foundation Studies in Renewable Energy and Sustainability.zip</a>

BE (RE) Year 2

E 21001	English
EM 21003	Engineering Mathematics III

	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 21016	Engineering Circuit Analysis I
	McE 21016+22016-Engineering Circuit Analysis =EcE-31001+32001-Engineering Circuit Analysis 1 & 2
	<a href="http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-31001+32001-Engineering Circuit Analysis 1 &amp; 2.zip</a>
McE 21015	Engineering Mechanic I
	<a href="http://www.iqytechnicalcollege.com/Engineering Mechanics.zip">www.iqytechnicalcollege.com/Engineering Mechanics.zip</a>  <a href="http://www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf">www.iqytechnicalcollege.com/RE-Engineering Mechanics.pdf</a>
McE 21019	Computer Science and Programming I
	<b>C++ Programming.zip (21.89MB)</b> <a href="http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip">http://www.iqytechnicalcollege.com/IT 21021+IT 22021-Programming Language in C++.zip</a>
ME 21012	Workshop Technology I
	<a href="http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip">http://www.iqytechnicalcollege.com/ME 21012 +22012-Workshop Technology.zip</a>

#### BE (RE) Year 3

E 31011	English
EM 31005	Engineering Mathematics V <a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 31026	Electronic Devices I
	<a href="http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EcE-11011+12011-Fundamental of Electronic Circuits 1 &amp; 2.zip</a>
McE 31036	Digital Electronics I
	<a href="http://www.iqytechnicalcollege.com/DE.zip">www.iqytechnicalcollege.com/DE.zip</a>  <a href="http://www.iqytechnicalcollege.com/Digital.zip">www.iqytechnicalcollege.com/Digital.zip</a>  <a href="http://www.iqytechnicalcollege.com/H012.zip">www.iqytechnicalcollege.com/H012.zip</a>
McE 31032	Electrical Machine and Control I
	<a href="http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip">http://www.iqytechnicalcollege.com/EP 51043+52043-Electromechanical Energy Conversion.zip</a>
RE 31022	_Applied PV (RE207)



	<p><b>RE002- Grid Connected Photovoltaic Power Systems-Electrical</b></p> <p>Day 14Part 1</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 1(Myanmar+English)</a></p> <p><b>Topics</b>-Sun Geometry, Solar Cell Connection</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 2(Myanmar+English)</a></p> <p><b>Topics</b>-Solar Electrical System Installation</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 3(Myanmar+English)</a></p> <p><b>Topics</b>-Power Output from solar cell, Grid Connection</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 4(Myanmar+English)</a></p> <p><b>Topics</b>-Solar Installation Inspection</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 5(Myanmar+English)</a></p> <p><b>Topics</b>-Lightning &amp; Surge Protection, Metering</p> <p><b>Day 14 Part 1</b></p> <p><b>RE002- Grid Connected Photovoltaic Power Systems-Electrical</b></p> <p>Day 14Part 1 RE002(3).mp4 (1.87MB)  <a href="http://www.filefactory.com/file/1020vv8m5a01/n/Day_14Part_1_RE002(3).mp4">http://www.filefactory.com/file/1020vv8m5a01/n/Day_14Part_1_RE002(3).mp4</a></p> <p>Day 14Part 1 RE002(4).mp4 (10.53MB)  <a href="http://www.filefactory.com/file/1v9p5mo1ib77/n/Day_14Part_1_RE002(4).mp4">http://www.filefactory.com/file/1v9p5mo1ib77/n/Day_14Part_1_RE002(4).mp4</a></p> <p>Day 14Part 1 RE002(1).mp4 (44.12MB)  <a href="http://www.filefactory.com/file/45a8fvz0yq7v/n/Day_14Part_1_RE002(1).mp4">http://www.filefactory.com/file/45a8fvz0yq7v/n/Day_14Part_1_RE002(1).mp4</a></p> <p>RE002-Grid Connected Inverter (1).pptx (200.1MB)  <a href="http://www.filefactory.com/file/50t1z2vlufmp/n/RE002-Grid_Connected_Inverter_(1).pptx">http://www.filefactory.com/file/50t1z2vlufmp/n/RE002-Grid_Connected_Inverter_(1).pptx</a></p> <p>RE002-Grid Connected Inverter (2).pptx (42.84MB)  <a href="http://www.filefactory.com/file/lwa9ts8fron/n/RE002-Grid_Connected_Inverter_(2).pptx">http://www.filefactory.com/file/lwa9ts8fron/n/RE002-Grid_Connected_Inverter_(2).pptx</a></p> <p>Day 14Part 1 RE002(2).mp4 (39.29MB)  <a href="http://www.filefactory.com/file/mweuzhoqwbd/n/Day_14Part_1_RE002(2).mp4">http://www.filefactory.com/file/mweuzhoqwbd/n/Day_14Part_1_RE002(2).mp4</a></p> <p><a href="http://www.highlightcomputer.com/Day_14-Part_1-RE002- Grid Connected Photovoltaic Power Systems-Electrical.zip">www.highlightcomputer.com/Day_14-Part_1-RE002- Grid Connected Photovoltaic Power Systems-Electrical.zip</a></p> <p>-</p>
McE 31034	<p>Basic Thermodynamic and Strength of Material I</p> <p><a href="http://www.iqytechnicalcollege.com/ME_21013 +22012+ME_31013+32013-Engineering Thermodynamics.zip">http://www.iqytechnicalcollege.com/ME_21013 +22012+ME_31013+32013-Engineering Thermodynamics.zip</a></p>
RE 31017	<p>Sustainability &amp; Renewable Energy RE205</p> <p><b>RE001 Foundation Studies in Renewable Energy</b></p> <p>Day 6 Part 1</p> <p><a href="#">Foundation Studies in Renewable Energy 1(Myanmar+English)</a></p> <p><b>Topics</b>-Climate change, solar energy, hydro energy</p> <p><a href="#">Foundation Studies in Renewable Energy 2(Myanmar+English)</a></p> <p><b>Topics</b>-Tidal Power, Design for climate</p> <p><a href="#">Foundation Studies in Renewable Energy 3(Myanmar+English)</a></p> <p><b>Topics</b>-Solar heating, Site selection, Embodied Energy</p> <p><a href="http://www.highlightcomputer.com/Day_6_Part_1_R001BAE523-Foundation Studies in Renewable Energy and Sustainability.zip">www.highlightcomputer.com/Day_6_Part_1_R001BAE523-Foundation Studies in Renewable Energy and Sustainability.zip</a></p>

BE(RE) Year 4

EM 41007	Engineering Mathematics VII
	<a href="http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EM-11001+12002+31003+31005+32006+41016+42016-Engineering Mathematics 1 &amp; 2.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip">www.iqytechnicalcollege.com/BAE 401 Advanced Engineering Mathematics.zip</a>  <a href="http://www.iqytechnicalcollege.com/BAE 402 Calculus.zip">www.iqytechnicalcollege.com/BAE 402 Calculus.zip</a>
McE 41025	Theory of Machines I
	Strength of materials.zip (97.88MB) <a href="http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip">http://www.iqytechnicalcollege.com/ME 41015+42015-Theory of Machines.zip</a>
RE 41035	<a href="#">Low Energy Buildings and PV</a> RE301
RE 41017	Solar and Thermal Energy Systems (RE003)
	<b>RE003- Solar and Thermal Energy Systems</b> Day 7 Part 1 <a href="#">Solar and Thermal Energy Systems 1 (Myanmar+English)</a> <b>Topics</b> -Solar Energy & Thermal Conversion  <a href="#">Solar and Thermal Energy Systems 2 (Myanmar+English)</a> <b>Topics</b> -Heat Exchanger, District Heating, Combined Heat & Power  <a href="#">Solar and Thermal Energy Systems 3 (Myanmar+English)</a> <b>Topics</b> -Domestic Solar Heating & Cooling, Earth Heat Reservoir  <a href="http://www.highlightcomputer.com/Day 7 Part 1 RE003- Solar and Thermal Energy Systems.zip">www.highlightcomputer.com/Day 7 Part 1 RE003- Solar and Thermal Energy Systems.zip</a>
McE 41029	Microprocessor and Microcontroller I
	<a href="http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip">http://www.iqytechnicalcollege.com/EcE-52004-Microprocessor System.zip</a>
McE 41026	Power Electronics I
	<a href="http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip">http://www.iqytechnicalcollege.com/EP 31014+32014-Power Electronics 1 &amp; 2.zip</a>
CE 12022	Building Materials & Construction

BE(RE) Year 5

E 51011	English
McE 51018	Industrial Management I
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
RE 51017	Grid-Connect PV System RE405

	<p><b>RE002- Grid Connected Photovoltaic Power Systems-Electrical</b></p> <p>Day 14Part 1</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 1(Myanmar+English)</a></p> <p><b>Topics</b>-Sun Geometry, Solar Cell Connection</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 2(Myanmar+English)</a></p> <p><b>Topics</b>-Solar Electrical System Installation</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 3(Myanmar+English)</a></p> <p><b>Topics</b>-Power Output from solar cell, Grid Connection</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 4(Myanmar+English)</a></p> <p><b>Topics</b>-Solar Installation Inspection</p> <p><a href="#">Grid Connected Photovoltaic Power Systems 5(Myanmar+English)</a></p> <p><b>Topics</b>-Lightning &amp; Surge Protection, Metering</p> <p><a href="http://www.highlightcomputer.com/Day 14-Part 1-RE002- Grid Connected Photovoltaic Power Systems-Electrical.zip">www.highlightcomputer.com/Day 14-Part 1-RE002- Grid Connected Photovoltaic Power Systems-Electrical.zip</a></p>
RE 51025	<p>Wind Energy Converters RE406</p> <p><a href="http://www.highlightcomputer.com/Day 8 Part 1B-RE006- Wind Energy Conversion Systems.zip">www.highlightcomputer.com/Day 8 Part 1B-RE006- Wind Energy Conversion Systems.zip</a></p> <p><b>RE006 Wind Energy Conversion System</b></p> <p><a href="#">Wind Energy Conversion System 1(Myanmar+English)</a></p> <p><b>Topics</b>-Energy&amp; Power in Wind, World Wind Energy</p> <p><a href="#">Wind Energy Conversion System 2 (Myanmar+English)</a></p> <p><b>Topics</b>-Wind Turbine, Aero-dynamic forces, Electricity Generated by Wind Turbine</p>
RE 51021	<p>Energy efficiency (RE007)</p>

	<p><b>RE007- Energy System Efficiency</b></p> <p>Day 16 Part 1</p> <p><a href="#">Energy System Efficiency 1 (Myanmar+English)</a></p> <p><b>Topics</b>-Unit Energy, Energy used by day</p> <p><a href="#">Energy System Efficiency 2 (Myanmar+English)</a></p> <p><b>Topics</b>-Comparison of energy usage, Solar Farming</p> <p><a href="#">Energy System Efficiency 3 (Myanmar+English)</a></p> <p><b>Topics</b>-Regeneration, Combined Heat &amp; Power</p> <p><a href="#">Energy System Efficiency 4 (Myanmar+English)</a></p> <p><b>Topics</b>-Heat Transfer, Energy Efficient Building Construction</p> <p><a href="#">Energy System Efficiency 5(Myanmar+English)</a></p> <p><b>Topics</b>-Energy Survey, Building Survey, Lighting Control</p> <p><a href="http://www.highlightcomputer.com/Day_16Part_1-RE007- Energy System Efficiency.zip">www.highlightcomputer.com/Day_16Part_1-RE007- Energy System Efficiency.zip</a></p>
RE 51051	Energy Storage Systems (RE004)
	<p><b>RE004- Energy Storage Systems</b></p> <p>Day 8 Part 1</p> <p><a href="#">Energy Storage Systems (Myanmar+English)</a></p> <p><b>Topics</b>-Principle, Power Grid Energy Storage Devices, Redox Battery, Hydrogen Cell Battery</p> <p><u>Day 8 Part 1</u></p> <p><b>RE004- Energy Storage Systems+ RE006- Wind Energy Conversion Systems</b></p> <p><a href="http://www.highlightcomputer.com/Day_8 Part 1A-RE004- Energy Storage Systems.zip">www.highlightcomputer.com/Day_8 Part 1A-RE004- Energy Storage Systems.zip</a></p>
RE 51027	Solar and Thermal Energy Systems (RE003)
	<p><b>RE003- Solar and Thermal Energy Systems</b></p> <p>Day 7 Part 1</p> <p><a href="#">Solar and Thermal Energy Systems 1 (Myanmar+English)</a></p> <p><b>Topics</b>-Solar Energy &amp; Thermal Conversion</p> <p><a href="#">Solar and Thermal Energy Systems 2 (Myanmar+English)</a></p> <p><b>Topics</b>-Heat Exchanger, District Heating, Combined Heat &amp; Power</p> <p><a href="#">Solar and Thermal Energy Systems 3 (Myanmar+English)</a></p> <p><b>Topics</b>-Domestic Solar Heating &amp; Cooling, Earth Heat Reservoir</p> <p>)</p> <p><a href="http://www.filefactory.com/file/s9o39ozwezn/n/Day_7_Part_1-RE003-Solar_&amp;_Thermal_Energy_System_(2).pdf">http://www.filefactory.com/file/s9o39ozwezn/n/Day_7_Part_1-RE003-Solar_&amp;_Thermal_Energy_System_(2).pdf</a></p> <p><a href="http://www.highlightcomputer.com/Day_7 Part 1 RE003- Solar and Thermal Energy Systems.zip">www.highlightcomputer.com/Day_7 Part 1 RE003- Solar and Thermal Energy Systems.zip</a></p>
RE 51039	<a href="#">PV Technology &amp; Manufacturing</a> RE302

## BE(RE) Year 6

E 61011	English
RE 61042	Low Emission Power Generation Technologies (RE506)
McE 61018	Industrial Engineering
	<a href="http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip">http://www.iqytechnicalcollege.com/EcE-61016-Industrial Management.zip</a>
RE 61031	Energy Management in Industrial and Commercial Facilities (RE503)
RE 61021	Biomass Gasification (RE502)
	<a href="http://www.iqytechnicalcollege.com/ChE 51062+62062-Biochemical Engineering.zip">http://www.iqytechnicalcollege.com/ChE 51062+62062-Biochemical Engineering.zip</a>
HSS 42011	Humanities and Social Science (Assignment only)

<http://www.iqytechnicalcollege.com/Form120BERE.htm>

## REFERENCE

Year 1	BE (RE)Units of UNSW	Equivalent BE (EE/ME) Units of IQY
RE101 (S1)	<a href="#">MATH1131 Mathematics 1A</a>	E050 (EE201) ENEMP101A Introductory Engineering Mathematics & Physics
RE102(S2)	<a href="#">MATH1231 Mathematics 1B</a>	E026 (EE302) ENEMP102A Foundation Engineering Mathematics & Physics
RE103(S1)	<a href="#">PHYS1121 Physics 1A</a>	E046 (EE304) ENEMP101A Introductory Engineering Mathematics & Physics
RE104 (S1)	<a href="#">PHYS1221 Physics 1B</a>	G001+G002 BAE407 ENEMP101A Introductory Engineering Mathematics & Physics
RE102(S3)	<a href="#">MATH1231 Mathematics 1B</a>	BAE401+402 ENEMP201A Foundation Engineering Mathematics & Physics
RE102(S3)	<a href="#">MATH1231 Mathematics 1B</a>	BAE401+402 ENEMP202A Advanced Engineering Mathematics & Physics
RE105(S2)	<a href="#">ENGG1000 Engineering Design</a>	MEM09004B+ME303 ENPRA101A Engineering Practice
RE106	<a href="#">ELEC1111 Elec &amp; Telecomm Eng</a>	BAE604
RE107(S1)	<a href="#">SOLA1070 Sustainable Energy</a>	K032 ENEGY101A Foundation Studies in Renewable Energy & Sustainability
RE108(S1)		E003+E004+H001 ENELE101A Principle of Electrical Engineering

Year 2	BE (RE)Units of UNSW	Equivalent BE (EE/ME) Units of IQY
RE201	<a href="#">ELEC1111 Elec &amp; Telecomm Eng</a>	BAE607
RE202	<a href="#">MATH2089 Numerical Methods &amp; Statistics</a>	Maths 302 Elementary Linear Algebra Maths 401 Continuous Distributions Maths 402 Discrete Distributions Maths 501 Introduction to Probability

RE203 (S1)	<a href="#">MATS1101 Engineering Materials and Chem</a>	E081 ME 103 Engineering Mechanics ME 207 Chemical Thermodynamics science-and-technology ME 209 Introduction-to-polymer-science-and-technology ENMAT101A Engineering Materials & Processes
RE204(S4)	<a href="#">SOLA2051 Project in PV and SE 1</a> <a href="#">SOLA2052 Project in PV and SE 2</a>	G069+G070+EE309 ENMGT201A Engineering Management
RE205(S2)	<a href="#">SOLA2053 Sust. &amp; Renew. En. Tech</a>	4291K+EE308 AEEGY202A Renewable Energy Resources Analysis
RE206	<a href="#">SOLA2060 Intro to Elec Devices</a>	H025+H011+H045 EE115+EE116
RE207(S2)	<a href="#">SOLA2540 Applied PV</a>	K025 +EE117 AEEGY102A Solar and Thermal Energy Systems
RE208	Project Presentation	

### **Bachelor of Applied Engineering (Renewable Energy Engineering)**

**( 4 points / unit x 15 units = 60 points+ Thesis)**

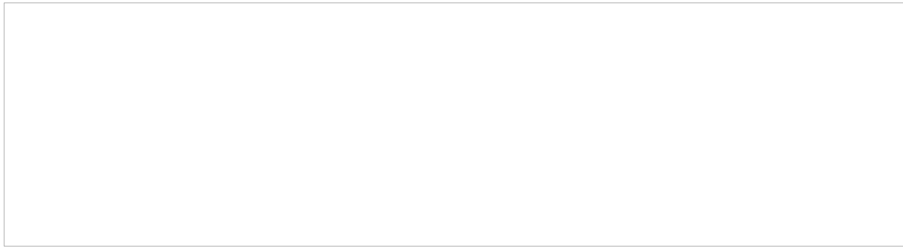
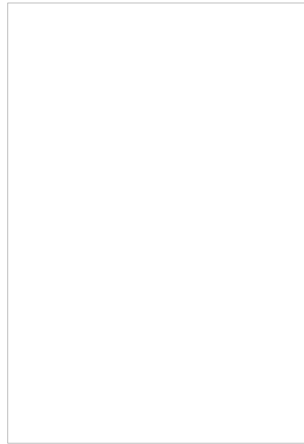
Year 3	BE (RE)Units of UNSW	Equivalent BE (EE/ME) Units of IQY
RE301(S2)	<a href="#">SOLA3010 Low Energy Buildings and PV</a>	K041+E047+EE307 ENMCC101A Foundation Mechanical and Civil Engineering Principles
		Dip ME+Dip CE+BE (ME+CE)
RE301(S4)	<a href="#">SOLA3010 Low Energy Buildings and PV</a>	K041+E047+EE307 AEEGY204A Energy System Efficiency
RE302(S2)	<a href="#">SOLA3020 PV Technology &amp; Manufacturing</a>	Additional Solar Notes+ME205 AEEGY102A Solar and Thermal Energy Systems
RE303	<a href="#">COMP3111 Software Engineering</a>	BAE603
RE304(S4)	<a href="#">ELEC2133 Analogue Electronics</a>	BAE408 ENELE203A Electronics and Power Control
RE305(S4)	<a href="#">ELEC4614 Power Electronics</a>	H026+ EE208+EE209 ENELE203A Electronics and Power Control
RE306(S3)	<a href="#">ELEC3115 Electromagnetic Engineering</a>	BAE407 ENELE201A Advanced Electrical Engineering
RE307(S3)	<a href="#">ELEC2134 Circuits and Signals</a>	G048+E025+ BAE405 ENELE201A Advanced Electrical Engineering
RE308	<a href="#">ELEC3114 Control Systems</a>	BAE502+BAE503 ENELE203A Electronics and Power Control
(S3)		BAE406+BAE507 ENELE202A Principles of Electrical Machinesa

Year 4	BE (RE)Units of UNSW	Equivalent BE (EE/ME) Units of IQY
RE401(S2)	<a href="#">MMAN2600 Fluid Mechanics</a>	ME201+ME204 ENMCC101A Foundation Mechanical and Civil Engineering Principles
RE402(S2)	<a href="#">MMAN2700 Thermodynamics</a>	ME102 ENMCC101A Foundation Mechanical and Civil Engineering Principles
		Dip ME+Dip CE+BE (ME+CE)
RE403	<a href="#">MECH9620 Computational Fluid Dynamics</a>	ME301
RE404	<a href="#">ELEC4122 Strategic Leadership &amp; Ethics</a>	BAE605 ENMGT201A Engineering Management
RE405 (S2)	<a href="#">SOLA4012 Grid-Connect PV Syst</a>	K035+EE308 AEEGY101A Grid Connected Photovoltaic Power System

RE406 (S4)	<a href="#">SOLA5053 Wind Energy Converters</a>	ME202 ME234 AEEGY203A Wind Energy Conversion Systems
RE407	<a href="#">SOLA5055 Semiconductor Devices</a>	RIT-EE407
RE408	<a href="#">Thesis</a>	
(S3)		BAE501,504 AEEGY201A Energy Storage Systems
(S3)		Dip ME+Dip CE, BE (Mech+Civil) ENMCC201A Advanced Mechanical and Civil Engineering Principles



## **The Institution of Professional Engineers-Myanmar**



[www.highlightcomputer.com/ipem.htm](http://www.highlightcomputer.com/ipem.htm)

**The Institution of Professional Engineers, Myanmar Facebook**

<https://www.facebook.com/myanmarprofessionalengineers/>

**Myanmar Professional Engineers Group**

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**Register of Myanmar Professional Engineers**

[www.highlightcomputer.com/registrants.htm](http://www.highlightcomputer.com/registrants.htm)



[www.highlightcomputer.com/mperinformation.pdf](http://www.highlightcomputer.com/mperinformation.pdf)

**Flow Diagram**

[www.highlightcomputer.com/mperflowdiagram.pdf](http://www.highlightcomputer.com/mperflowdiagram.pdf)

**Foundation Membership Application ( Interim Process )**

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## **Normal Application Process**



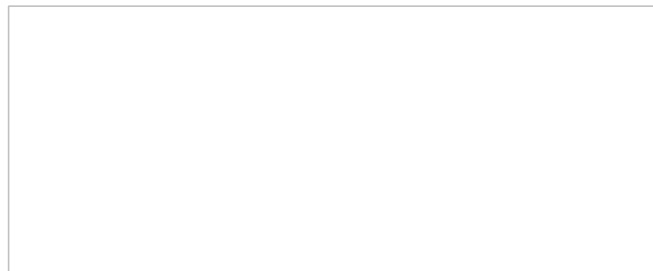
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<http://www.highlightcomputer.com/MEngCRegister.doc>

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## **CEng & CPEng Applications Instruction**

[www.highlightcomputer.com/cengapplication.htm](http://www.highlightcomputer.com/cengapplication.htm)

## **ENGINEERING SPECIFICATIONS, STANDARDS & RULES**

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[www.highlightcomputer.com/mengc.htm](http://www.highlightcomputer.com/mengc.htm)

**The Institute of Renewable Energy Engineers**

[www.highlightcomputer.com/iree.htm](http://www.highlightcomputer.com/iree.htm)

# Myanmar Professional Engineers Register (The Institution of Professional Engineers-Myanmar)

[www.highlightcomputer.com/mper.htm](http://www.highlightcomputer.com/mper.htm)

Myanmar Engineering Council Law Changing Campaign

[www.highlightcomputer.com/mengclaw.htm](http://www.highlightcomputer.com/mengclaw.htm)

## PROFESSIONAL ENGINEER SUPPORT WEBSITE OF IQY TECHNICAL COLLEGE OF HIGHLIGHT COMPUTER GROUP

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A Professional Engineer needs wide knowledge of theory and practical applications of engineering. The knowledge is not limited to a particular course.

This Professional Engineer Support Website includes Engineering Job Competencies, Technician+ Technologist Level, Theoretical Knowledge requirement for Professional Engineer, Undergraduate Level Theoretical Knowledge requirement for Professional Engineer, Post graduate Level Theoretical Knowledge requirement for Professional Engineer, Practical Knowledge requirement for Professional Engineer ,Professional Engineer Postgraduate Competency Development (Electrical & Civil),Knowledge refreshing by watching lesson videos, Youtube Engineering Lessons ,MP4 Engineering Lessons ,Engineering Rules/Regulation/Safety Knowledge(Electrical Safety, Construction site safety & OHS, Explosion Protection & safety etc are included & the reference materials are referred from relevant Australian Industrial Safety Authorities), Engineering Competency Demonstration Report and Information on Professional Engineer Registration around the world. .

The purpose is to provide the one stop shop for the engineers who seek PE/RSE registration in Myanmar as well as ASEAN , UK, USA, Australia etc to get the information as well as refreshing the theoretical studies and practical knowledge.

## Engineering Job Competencies

[IQY Technical College Professional Engineer/Management Professional & Information Technology Professional Skills Training](#)

[Engineers Australia Professional Engineer, Engineering Technologists & Engineering Associate Competencies References](#)

### Part 1-ENGINEERING FUNDAMENTAL

[Technician+ Technologist Level Theoretical Knowledge requirement for Professional Engineer](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 1-Online Lessons\)](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 2-Reference Resources\)](#)

[Post graduate Level Theoretical Knowledge requirement for Professional Engineer](#)

Practical Knowledge requirement for Professional Engineer

Practical Knowledge requirement for Professional Engineer

## **Part 2-PROFESSIONAL ENGINEER COMPETENCY DEVELOPMENT**

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The resources+ handbooks can only be provided in DVD disks

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**MIEAust, RPEQ,FSIET**

MP4 Engineering Lessons by Program Leader Engineering-  
**MIEAust, RPEQ, FSIET**

Youtube Engineering Lessons (Advanced Diploma of Electrical Engineering/Technology courses in Australia)

by Program Leader Engineering- **MIEAust, RPEQ, FSIET**

## **Part 3-ENGINEERING RULES/REGULATION/SAFETY**

Engineering Rules/Regulation/Safety Knowledge

Engineering Competency Demonstration Report

Competency Elements of Stage 1 Professional Engineer (Australia)

Electro-technology Competency Development

Electro-technology Competency Development (Electronics)

## **Part 4-PROFESSIONAL ENGINEER REGISTRATION**

Professional Engineer Registration around the world

Undergraduate Level Theoretical Knowledge requirement for Professional Engineer

## **Part 5-PROFESSIONAL ENGINEER RESOURCES DOWNLOAD CENTRE**

**Overall**

**[www.highlightcomputer.com/downloadcentre.htm](http://www.highlightcomputer.com/downloadcentre.htm)**

**Electrical+ Building Services**

**[www.highlightcomputer.com/PEEE.htm](http://www.highlightcomputer.com/PEEE.htm)**

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**[www.highlightcomputer.com/PEEC.htm](http://www.highlightcomputer.com/PEEC.htm)**

**Civil**

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**Bachelor of Engineering (Civil)**

<http://www.highlightcomputer.com/CivilDegreeInstruction.pdf>

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Post graduate Level Theoretical + Practical+ Management Knowledge requirement for Professional Engineer

**Graduate Diploma & Master of Engineering Practice (Electrical/Civil/ Mechanical) for Graduate Engineers**

(72115/73315/72515/72315/72415/82115/82215/82315/82415/)

<http://www.highlightcomputer.com/GraduateDiplomaEngineeringPracticeOutline.pdf>

### **GRADUATE ENGINEER TRAINING PROGRAM**

[www.mongroupsytdney1.com/GraduateCapstone.pdf](http://www.mongroupsytdney1.com/GraduateCapstone.pdf)

[www.mongroupsytdney1.com/AdditionalCapstoneTextBooks.pdf](http://www.mongroupsytdney1.com/AdditionalCapstoneTextBooks.pdf)

### **PROFESSIONAL ENGINEER REGULATIONS**

[www.mongroupsytdney1.com/PEngReg.pdf](http://www.mongroupsytdney1.com/PEngReg.pdf)

### **PROPOSED PE ROUTE**

[www.mongroupsytdney1.com/PERSEProposalBasedonAccreditationModel.pdf](http://www.mongroupsytdney1.com/PERSEProposalBasedonAccreditationModel.pdf)

## **PROPOSED PE ROUTE EXPLANATION**

[www.mongroupsydneyn1.com/PERSEFlowDiagramExplanation.pdf](http://www.mongroupsydneyn1.com/PERSEFlowDiagramExplanation.pdf)

## **PROPOSED PE REGISTRATION PROCESS**

[www.mongroupsydneyn1.com/MyanmarEngineerRegistrationRulesProvision.pdf](http://www.mongroupsydneyn1.com/MyanmarEngineerRegistrationRulesProvision.pdf)

## **REVIEW OF ENGINEER LAW**

[www.mongroupsydneyn1.com/MEngCLawsPossibleWaystoimplementMod.pdf](http://www.mongroupsydneyn1.com/MEngCLawsPossibleWaystoimplementMod.pdf)

## **MYANMAR VERSION**

[www.mongroupsydneyn1.com/MEngCLawAnalysisMyanmarVersionTyped.pdf](http://www.mongroupsydneyn1.com/MEngCLawAnalysisMyanmarVersionTyped.pdf)

[www.mongroupsydneyn1.com/RegistraionSuggestionDrKyawNaing.pdf](http://www.mongroupsydneyn1.com/RegistraionSuggestionDrKyawNaing.pdf)

## **Engineering Rules/Regulation/Safety Knowledge**

### **Explosion Protection**

#### **PROTECTION UNITS**

Click [HERE](#) to access the references for explosion protection

### **Electrical Safety**

**Electrician Licensing Requirements.zip**

[Stage 1 Part 3.zip](#)

[http://www.filefactory.com/file/c0cb8f5/n/Stage\\_1\\_Part\\_3.zip](http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip)

**Substation Entry.zip**

[Stage 1 Part 5.zip](#)

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**Construction Electrical Safety.zip**

[Stage 1 Part 1.zip](#)

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**Inservice Testing.zip**

[Stage 1 Part 4.zip](#)

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**NREL\_Disconnect\_Reconnect.zip**

[Stage 1 Part 5.zip](#)

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**Electrical\_safe\_working.zip**

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[http://www.filefactory.com/file/c0cb8f5/n/Stage\\_1\\_Part\\_3.zip](http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip)

### **Occupational Health & Safety**

**OHS Workbook.zip**

[Stage 1 Part 5.zip](#)

[http://www.filefactory.com/file/c0cb9b3/n/Stage\\_1\\_Part\\_5.zip](http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip)

### **Electrical Risk Assessment**

[Project Risk Management References](#)

[Report Writing](#)

## **Post graduate Level Theoretical Knowledge requirement for Professional Engineer**

[IOY Masters Degree \(M Mat+ ME \(EE.CE.ME\)+M App Sc \(IT\)+MSc \(RE\)+ Associate Degree in RE+ BE \(Civil+ Mechanical\) Courses Learning Support Website](#)

[Graduate Diploma of Engineering Practice \(Mechanical\) Course Outline](#)

#### **Course Notes**

[http://www.filefactory.com/file/21fkobz76fvj/Graduate\\_Diploma%20in%20Mechanical%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/21fkobz76fvj/Graduate_Diploma%20in%20Mechanical%20Engineering%20Course%20Work.pdf)

[Graduate Diploma of Engineering Practice \(Civil\) Course Outline](#)

#### **Course Notes**

[http://www.filefactory.com/file/21ifsjw6w873/Graduate\\_Diploma%20in%20Civil%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/21ifsjw6w873/Graduate_Diploma%20in%20Civil%20Engineering%20Course%20Work.pdf)

**Graduate Diploma of Engineering (Electrical+Electronics) Course Outline**

**Course Notes**

[http://www.filefactory.com/file/70g9yl2t4ogt/Graduate\\_Diploma%20in%20Electrical%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/70g9yl2t4ogt/Graduate_Diploma%20in%20Electrical%20Engineering%20Course%20Work.pdf)

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[Engineers Australia Professional Engineer, Engineering Technologists & Engineering Associate Competencies References](#)

### **Part 1-ENGINEERING FUNDAMENTAL**

[Technician+ Technologist Level Theoretical Knowledge requirement for Professional Engineer](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 1-Online Lessons\)](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 2-Reference Resources\)](#)

[Post graduate Level Theoretical Knowledge requirement for Professional Engineer](#)

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### **Part 2-PROFESSIONAL ENGINEER COMPETENCY DEVELOPMENT**

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## **Part 3-ENGINEERING RULES/REGULATION/SAFETY**

[Engineering Rules/Regulation/Safety Knowledge](#)

[Engineering Competency Demonstration Report](#)

[Competency Elements of Stage 1 Professional Engineer \(Australia\)](#)

[Electro-technology Competency Development](#)

[Electro-technology Competency Development \(Electronics\)](#)

## **Part 4-PROFESSIONAL ENGINEER REGISTRATION**

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[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer](#)

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## Certificate/Diploma/Advanced Diploma (Electrical Engineering)

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## Certificate/Diploma/Advanced Diploma (Mechanical Engineering)

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### Video

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-

## Post graduate Level Theoretical Knowledge requirement for Professional Engineer

[IOY Masters Degree \(M Mat+ ME \(EE.CE.ME\)+M App Sc \(IT\)+MSc \(RE\)+ Associate Degree in RE+ BE \(Civil+ Mechanical\) Courses Learning Support Website](#)

-

[Graduate Diploma of Engineering Practice \(Mechanical\) Course Outline](#)

### **Course Notes**

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[Graduate Diploma of Engineering Practice \(Civil\) Course Outline](#)

### **Course Notes**

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[Graduate Diploma of Engineering \(Electrical+Electronics\) Course Outline](#)

### **Course Notes**

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## Engineering Rules/Regulation/Safety Knowledge

## Explosion Protection

Click **HERE** to access the references for explosion protection

## Electrical Safety

Electrician Licensing Requirements.zip

Stage 1 Part 3.zip

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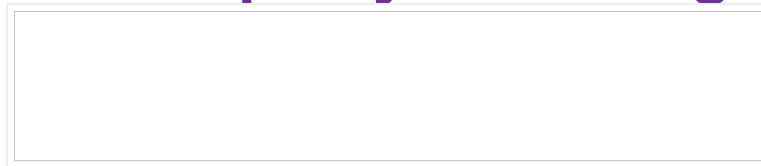
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RiskManagement.pdf <a href="#">Stage 4 Part 20.zip</a> <a href="http://www.filefactory.com/file/c0cc9b4/n/Stage_4_Part_20.zip">http://www.filefactory.com/file/c0cc9b4/n/Stage_4_Part_20.zip</a>
<b><a href="#">Electrical Risk Assessment</a></b>
<a href="#">Project Risk Management References</a>

# The Institution of Professional Engineers Myanmar

Sunday, 2 October 2016

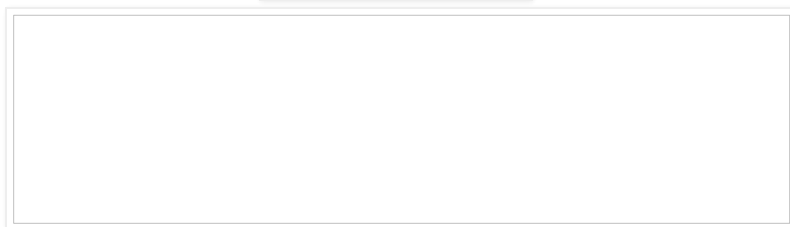
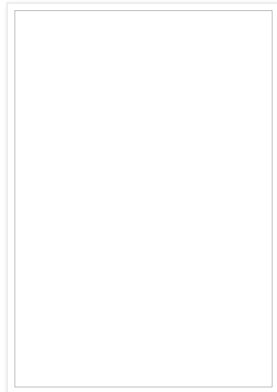
**NEW WEBSITE**

**[www.ipemyanmar.org](http://www.ipemyanmar.org)**



**The Institution of Professional Engineers-  
Myanmar (IPEM)**

**(Myanmar International Engineers)**



**[www.highlightcomputer.com/ipem.htm](http://www.highlightcomputer.com/ipem.htm)**

IPEM Is not the manipulation of Myanmar Engineering Council for  
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Announce 4 Myanmar

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[www.highlightcomputer.com/ipemaccreditedcolleges.htm](http://www.highlightcomputer.com/ipemaccreditedcolleges.htm)

### Register of Myanmar Professional Engineers

[www.highlightcomputer.com/registrants.htm](http://www.highlightcomputer.com/registrants.htm)

### IPEM MEMBERS (FROM 2018)

<http://electricaldiploma2013.blogspot.com.au/2018/03/ipem-members-from-2018.html>

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### Flow Diagram

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**Foundation Membership Application ( Interim Process )**

<http://www.highlightcomputer.com/foundationmember.doc>

**Fill & send it**

**to** [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

**Normal Application Process**



**Assessment Process** [Click HERE](#)



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**Fill & send it**

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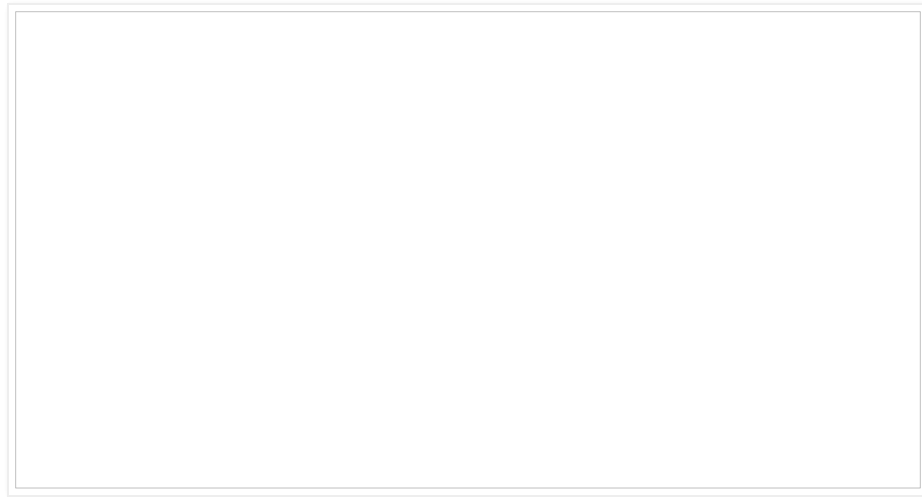
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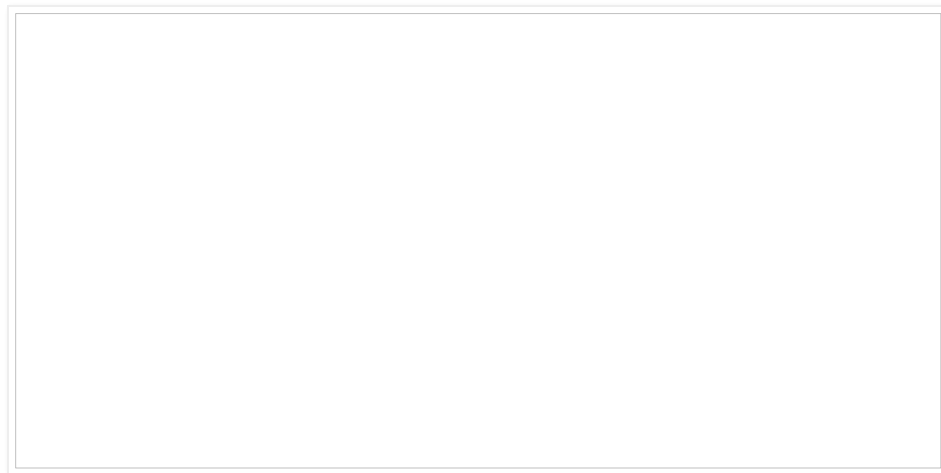
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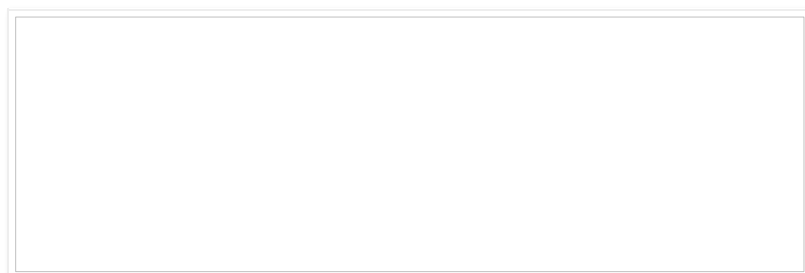
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Thanlyin Technological University (TTU)  
 Department of Electronic Engineering  
 Curriculum for Bachelor of Engineering  
 (New 6 year Direct Intake System)

FIRST YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M-11011	Myanmar I	2	0	0	3	2	4
2	E-11011	English I	2	1	0	3	2.5	4.5
3	EM-11001	Engineering Mathematics	4	2	0	6	5	9
4	E.Ch-11011	Engineering Chemistry I	3	1	2	6	4.5	7.5
5	E.Ph-11011	Engineering Physics I	2	1	2	5	3.5	5.5
6	ME-11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	EcE-11011	Fundamental of Electronic CircuitsI	2	0	1	3	2.5	4.5
Total			16	5	7	29	22	38

FIRST YEAR (Second Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M-12011	Myanmar II	2	0	0	3	2	4
2	E-12011	English II	2	1	0	3	2.5	4.5
3	EM-12002	Engineering Mathematics	4	2	0	6	5	9
4	E.Ch-12011	Engineering Chemistry II	3	1	2	6	3.5	7.5

5	E.Ph-12011	Engineering Physics II	2	1	2	5	3.5	5.5
6	ME-12011	Basic Engineering Drawing II	1	0	2	3	2	3
7	EcE-12011	Fundamental of Electronic Circuits II	2	0	1	3	2.5	4.5
Total			16	5	7	29	22	38

Remark : After second semester examination, Industrial Training (Visit) under the supervision of teachers.

SECOND YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-21011	English	2	1	0	3	2.5	4.5
2	EM-21003	Engineering Mathematics	4	2	0	6	5	9
3	EcE-21002	Communication Principles I	2	0	1	3	2.5	4.5
4	EcE-21001	Electronic Engineering Circuit I	2	0	2	4	3	5
5	EcE-21021	Digital Electronics I	2	0	1	3	2.5	4.5
6	EcE-21011	Microelectronics I	2	1	1	4	3	5
7	EcE-21014	Technical Programming I	2	0	2	4	3	5
Total			16	4	7	27	21.5	37.5

SECOND YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-22011	English	2	1	0	3	2.5	4.5
2	EM-22004	Engineering Mathematics	4	2	0	6	5	9
3	EcE-22002	Communication Principles II	2	0	1	3	2.5	4.5
4	EcE-22001	Electronic Engineering Circuit II	2	0	2	4	3	5
5	EcE-22021	Digital Electronics II	2	0	1	3	2.5	4.5
6	EcE-22011	Microelectronics II	2	1	1	4	3	5
7	EcE-22014	Technical Programming II	2	0	2	4	3	5
Total			16	4	7	27	21.5	37.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

THIRD YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		

1	E-31011	English	3	1	0	4	3.5	4.5
2	EM-31005	Engineering Mathematics	4	2	0	6	5	9
3	EcE-31001	Engineering Circuit Analysis I	2	1	2	5	3.5	5.5
4	EcE-31002	Computer Communication I	2	1	1	4	3	5
5	EcE-31011	Engineering Electromagnetic I	2	1	0	3	2.5	4.5
6	EcE-31021	Integrated Electronics I	2	1	1	4	3	5
7	EcE-31003	Modeling and Control I	2	1	1	4	3	5
Total			14	8	5	30	23.5	38.5

THIRD YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-32011	English	3	1	0	4	3.5	4.5
2	EM-32006	Engineering Mathematics	4	2	0	6	5	9
3	EcE-32001	Engineering Circuit Analysis II	2	1	2	5	3.5	5.5
4	EcE-32002	Computer Communication II	2	1	1	4	3	5
5	EcE-32011	Engineering Electromagnetic II	2	1	0	3	2.5	4.5
6	EcE-32021	Integrated Electronics II	2	1	1	4	3	5
7	EcE-32003	Modeling and Control II	2	1	1	4	3	5
Total			14	8	5	30	23.5	38.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

FOURTH YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-41011	English	3	1	0	4	3.5	6.5
2	EM-41016	Engineering Mathematics	4	2	0	6	5	9
3	EcE-41002	Digital Communication I	2	2	0	4	3	5
4	EcE-41021	Digital Design with HDL I	2	1	1	4	3	5
5	EcE-41003	Modern Control System I	2	1	1	4	3	5
6	EP-41043	Electrical Machines I	2	1	1	4	3	5
7	EcE-41031	Industrial Electronic & Control I	2	1	1	4	3	5
Total			14	8	4	30	23.5	40.5

FOURTH YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		

Sr. No	Course No.	Courses	Lect.	Tut.	Pract.	Tot.	Credit Points	Independent Learning
1	E-42011	English	3	1	0	4	3.5	6.5
2	EM-42016	Engineering Mathematics	4	2	0	6	5	9
3	EcE-42002	Digital Communication II	2	2	0	4	3	5
4	EcE-42021	Digital Design with HDL II	2	1	1	4	3	5
5	EcE-42003	Modern Control System II	2	1	1	4	3	5
6	EP-42043	Electrical Machines II	2	1	1	4	3	5
7	EcE-42031	Industrial Electronic & Control II	2	1	1	4	3	5
Total			14	8	4	30	23.5	40.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

FIFTH YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-51011	English	3	1	0	4	3.5	6.5
2	EcE-51001	Advanced Electronics	4	2	3	9	6.5	10.5
3	EcE-51003	Digital Control System	4	1	3	8	6	10
4	EcE-51013	Microwave Engineering	4	3	1	8	6	10
Total			15	7	7	29	22	37

FIFTH YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-52011	English	3	1	0	4	3.5	6.5
2	EcE-52004	Microprocessor Systems	4	2	3	9	6.5	10.5
3	EcE-52005	Digital Signal Processing	4	1	3	8	6	10
4	EcE-52012	Wireless and Mobile Communications	4	3	1	8	6	10
Total			15	7	7	29	22	37

Remark : After Second Semester Examination, it is necessary to carry out project.

FINAL YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-61011	English	3	1	0	4	3.5	6.5

2	EcE-61016	Industrial Management	2	2	0	4	3	5
3	EcE-61015	Network Planning and Management (Project)	2	2	0	4	3	5
4	EcE-61001	Software Tools for Electronic Design (Project)	2	0	2	4	3	5
5	EcE-61012	Modern Electronic Communication Systems I	2	2	0	4	3	5
6	EcE-61003	PLC and SCADA Control System (Project)	2	1	2	5	3.5	5.5
Total			12	8	4	24	18	30

Remark :

For EcE 61001, Software Tools for Electronic Design : No examination, assignments only. Two elected projects will be submitted.

#### FINAL YEAR (Second Semester)

In second semester, final year students have to give at least three seminar presentations and viva voce for the Graduation Project/ Internship Program/ Mini Thesis.

Take Credit Points = 10

(1 Lecture = 1 credit, 1 tutorial = 0.5 credit and 1 practical = 0.5 credit) for all six years

Thanlyin Technological University (TTU)

Department of Electrical Power Engineering

Curriculum for Bachelor of Engineering (New 6 year Direct Intake System)

#### FIRST YEAR (Semester One) (18 weeks)

Sr. No.	Course No.	Courses	Period /week(avg.)				CreditPoints	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 11011	Myanmar I	2	0	0	2	2	4
2	E 11011	English I	2	1	0	3	2.5	4.5
3	EM 11001	Engineering Mathematics I	4	2	0	6	5	9
4	E.Ch. 11011	Engineering Chemistry I	2	1	2	5	3.5	5.5
5	E.Ph. 11011	Engineering Physics I	2	1	2	5	3.5	5.5
6	ME 11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	ME 11011	Principle of Electrical Engineering I	2	0	1	3	2.5	4.5
Total			15	5	7	27	21	36

#### FIRST YEAR (Semester Two) (18 weeks)

Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 12011	Myanmar II	2	0	0	2	2	4
2	E 12011	English II	2	1	0	3	2.5	4.5
3	EM 12002	Engineering Mathematics II	4	2	0	6	5	9

4	EM 12012	Engineering Chemistry II	2	1	2	5	3.5	5.5
5	E.Ch. 12011	Engineering Physics II	2	1	2	5	3.5	5.5
6	E.Ph. 12011	Basic Engineering Drawing II	1	0	2	3	2	3
7	ME 12011	Principle of Electrical Engineering II	2	0	1	3	2.5	4.5
Total			15	5	7	27	21	36

SECOND YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 21011	English	2	1	0	3	2.5	4.5
2	EM 21003	Engineering Mathematics III	4	2	0	6	5	9
3	EP 21011	Electrical Engineering Circuit Analysis I	3	1	1	5	4	7
4	EP 21014	Basic Electronics I	2	1	1	4	3	5
5	EP 21021	Electromechanics I	2	1	1	4	3	5
6	EP 21026	Generation, Transmission and Distribution	2	1	0	4	2.5	4.5
7	ME 21015	Engineering Mechanics I	3	1	0	4	3.5	6.5
Total			18	8	4	30	24	41.5

SECOND YEAR (Semester Two) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 22011	English	2	1	0	3	2.5	4.5
2	EM 22004	Engineering Mathematics IV	4	2	0	6	5	9
3	EP 21011	Electrical Engineering Circuit Analysis II	3	1	1	5	4	7
4	EP 22014	Basic Electronics II	2	1	1	4	3	5
5	EP 22021	Electromechanics II	2	1	1	4	3	5
6	EP 22026	Generation, Transmission and Distribution	2	1	0	4	2.5	4.5
7	ME 22015	Engineering Mechanics II	3	1	0	4	3.5	6.5
Total			18	8	4	30	23.5	41.5

THIRD YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 31011	English	2	1	0	3	2.5	4.5
2	EM 31005	Differential Equation	4	2	0	6	5	9



Remark : To do Practical\_Design Project for Electrical Machines Design and Power System Design.

FOURTH YEAR (Semester Two) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 42011	English	2	1	0	3	2.5	4.5
2	EM 42007	Discrete Mathematics I	4	2	0	6	5	9
3	EP 42027	Linear Control System II	3	1	0	4	3.5	6.5
4	EP 42028	Programmable Logic Control II	3	1	1	5	4	7
5	EP 42021	Electrical Machine Design II	3	1	0	4	3.5	6.5
6	EP 42036	Design & Layout of Power System II	3	1	0	4	3.5	6.5
7	EP 42042	Power System Analysis II	3	1	0	4	3.5	6.5
8	EP 42004	Microprocessor System	3	0	0	3	3	6
Total			23	8	1	33	28.5	52.5

Power System I (5th Year) Power System Stability

FIFTH YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 51011	English	2	1	0	3	2.5	4.5
2	EP 51017	Modern Control System I	3	1	1	5	4	7
3	EP 51014	Electrical Machine and Control I	3	1	1	5	4.5	7
4	EP 51022	Power System Protection I	3	1	0	4	3.5	6.5
5	EP 51002	Economic Operation of Power System	3	1	0	4	3.5	6.5
6	EP 51043	Electromechanical Energy Conversion	3	1	0	5	4	6.5
7	EP 51015	Energy Technology	2	1	1	4	3	5
Total			21	7	3	31	29.5	43

FIFTH YEAR (Semester Two) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 52011	English	2	1	0	3	2.5	4.5
2	EP 52017	Modern Control System II	3	1	1	5	4	7
3	EP 52014	Electrical Machine and Control II	3	1	1	5	4.5	7
4	EP 52022	Power System Protection II	3	1	0	4	3.5	6.5





4	E.Ch.12011	Engineering Chemistry	3	1	2	6	7.5	4.5
5	E.Ph.12011	Engineering Physics	2	1	2	5	5.5	3.5
6	ME-12011	Basic Engineering Drawing I	1	0	2	3	3	2
7	CE 12022	Building Materials & Construction	2	1	1	4	5	3
Total			16	6	7	29	38.5	22.5

Remark:

#### SECOND YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-21011	English	2	1	0	3	4.5	2.5
2	EM-21003	Engineering Mathematics	4	2	0	6	9	5
3	ME-21015	Engineering Mechanics	2	1	0	3	4.5	2.5
4	EP 21011	Applied Electrical Engineering	2	1	0	3	4.5	2.5
5	CE 21011	Surveying I	2	1	1	4	5	3
6	CE 21012	Civil Engineering Drawing I	1	0	3	4	3.5	2.5
7	CE 21019	Workshop Technologies & Practices I	1	0	3	4	3.5	2.5
Total			14	6	7	27	34	20.5

Remark:

#### SECOND YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-22011	English	2	1	0	3	4.5	2.5
2	EM-22004	Engineering Mathematics	4	2	0	6	9	5
3	ME-22015	Engineering Mechanics	2	1	0	3	4.5	2.5
4	EP 22011	Applied Electrical Engineering	2	1	0	3	4.5	2.5
5	CE 22011	Surveying II	2	1	1	4	5	3
6	CE 22012	Civil Engineering Drawing II	1	0	3	4	3.5	2.5
7	CE 22019	Workshop Technologies & Practices II	1	0	3	4	3.5	2.5
Total			14	6	7	27	34	20.5

Remark:

#### THIRD YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-31011	English	2	1	0	3	4.5	2.5
2	EM-31005	Engineering Mathematics	4	2	0	6	9	5
3	CE-31011	Surveying III	2	1	1	4	5	3
4	CE 31013	Mechanics of Materials I	2	1	0	3	4.5	2.5
5	CE 31016	Fluid Mechanics I	2	0	1	3	4.5	2.5
6	CE 31017	Transportation Engineering I	2	1	0	3	4.5	2.5
7	CE 31015	Geotechnical Engineering I	2	1	1	4	5	3
8	Geol 31011	Civil Engineering Geology I	2	1	1	4	5	3
Total			18	8	4	30	42	24

Remark:

#### THIRD YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-32011	English	2	1	0	3	4.5	2.5
2	EM-32006	Engineering Mathematics	4	2	0	6	9	5
3	CE 32013	Mechanics of Materials II	2	1	0	3	4.5	2.5
4	CE 32016	Fluid Mechanics II	2	0	1	3	4.5	2.5
5	CE 32017	Transportation Engineering II	2	1	0	3	4.5	2.5
6	CE 32015	Geotechnical Engineering II	2	1	1	4	5	3
7	Geol 32011	Civil Engineering Geology II	2	1	1	4	5	3
Total			16	7	3	26	37	21

Remark:

#### FOURTH YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	

1	E-41011	English	2	1	0	3	4.5	2.5
2	EM-41007	Engineering Mathematics	4	2	0	6	9	5
3	CE 41013	Theory of Structures I	2	1	0	3	4.5	2.5
4	CE 41014	Design of Timber Structures	2	1	0	3	4.5	2.5
5	CE 41015	Geotechnical Engineering III	2	1	1	4	5	3
6	CE 41016	Hydraulic Engineering and Applied Hydraulics I	2	1	1	4	5	3
7	CE 41017	Transportation Engineering III	2	1	0	3	4.5	2.5
8	HSS 41011	Humanity and Social Science I	2	1	0	3	4.5	2.5
Total			18	9	2	29	41.5	23.5

Remark:

#### FOURTH YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week				IL	Credit Points
			Lect.	Tut.	Pract.	Total		
1	E-42011	English	2	1	0	3	4.5	2.5
2	EM-42008	Engineering Mathematics	4	2	0	6	9	5
3	CE 42013	Theory of Structures II	2	1	0	3	4.5	2.5
4	CE 42026	Engineering Hydrology	2	1	0	3	4.5	2.5
5	CE 42016	Hydraulic Engineering and Applied Hydraulics II	2	1	1	4	5	3
6	CE 42017	Transportation Engineering IV	2	1	0	3	4.5	2.5
7	CE 42018	Environmental Engineering I	2	1	1	4	5	3
8	HSS 42011	Humanity and Social Science II	2	1	0	3	4.5	2.5
Total			18	9	2	29	41.5	23.5

Remark:

#### FIFTH YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-51011	English	2	1	0	3	4.5	2.5
2	CE 51013	Theory of Structures III	2	1	0	3	4.5	2.5
3	CE 51014	Design of Reinforced Concrete Structures I	2	1	0	3	4.5	2.5
4	CE 51012	Civil Engineering Construction Technology and Engineering Economics	2	1	0	3	4.5	2.5
5	CE 51016	Design of Hydraulic Structures I	2	1	1	4	5	3
6	CE 51024	Design of Steel Structures I	2	1	0	3	4.5	2.5
7	CE 51018	Environmental Engineering II	2	1	1	4	4	3
8	CE 51022	Estimating and Specifications I	1	0	3	4	3.5	2.5
Total			15	7	5	27	35	21

Remark:

#### FIFTH YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	

1	E-52011	English	2	1	0	3	4.5	2.5
2	CE 52014	Design of Reinforced Concrete Structures II	2	1	0	3	4.5	2.5
3	CE 52012	Business Administration	2	1	0	3	4.5	2.5
4	CE 52016	Design of Hydraulic Structures II	2	1	1	4	5	3
5	CE 52024	Design of Steel Structures II	2	1	0	3	4.5	2.5
6	CE 52018	Environmental Engineering III	2	1	1	4	5	3
7	CE 52022	Estimating and Specifications II	1	0	3	4	3.5	2.5
Total			14	6	5	25	31.5	18.5

Remark:

SIXTH YEAR (First Semester)

Sr. No	Code	Course	Periods/Week				Credit Points
			Lect.	Tut.	Pract.	Total	
1	E 61011	English	2	1	0	3	2.5
3	CE 61019	Computer Application in Civil Engineering	1	0	3	4	2.5
Total			3	1	3	7	5

Remark:

SIXTH YEAR (Second Semester)

Graduation Project/Internship Program/ Mini Thesis (Credit Point9)

Ministry of Education

Thanlyin Technological University (TTU)

Department of Mechanical Engineering

Curriculum for Bachelor of Mechanical Engineering

(New 6 year Direct Intake System)

FIRST YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut.	Prac.	Tot.		
1	M 11001	Myanmar	2	0	0	2	2	4
2	E 11011	English	2	1	0	3	2.5	4.5
3	EM 11001	Engineering Mathematics I	4	2	0	6	5	9
4	Ph 11001	Engineering Physics I	2	1	2	5	3.5	5.5
5	Ch 11001	Engineering Chemistry I	3	1	2	6	4.5	7.5
6	ME 11011	Basic Engineering Drawing	1	0	2	3	2	3
7	ME 11012	Workshop Practice	0	0	2	2	1	1
Total			14	5	8	27	20.5	34.5

FIRST YEAR (Semester Two) (18 weeks)					
Sr.			Period/week	Credit	Independent

No.	Code	Courses	Lect	Tut	Pract	Tot.	Points	Learning
1	M 12001	Myanmar	2	0	0	2	2	4
2	E 12011	English	2	1	0	3	2.5	4.5
3	EM 12002	Engineering Mathematics II	4	2	0	6	5	9
4	Ph 12001	Engineering Physics II	2	1	2	5	3.5	5.5
5	Ch 12001	Engineering Chemistry II	3	1	2	6	4.5	7.5
6	ME 12011	Basic Engineering Drawing	1	0	2	3	2	3
7	ME 12012	Workshop Practice	0	0	2	2	1	1
Total			14	5	8	27	20.5	34.5

#### SECOND YEAR (Semester One) (18 weeks)

Sr. No.	Code	Courses	Period/week				CreditPoints	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 21001	English	2	1	0	3	2.5	4.5
2	EM 21003	Engineering Mathematics III	4	2	0	6	5	9
3	ME 21011	Machine Drawing	1	0	2	3	2	3
4	ME 21012	Workshop Technology	1	0	2	3	2	3
5	ME 21015	Engineering Mechanics	2	1	0	3	2.5	4.5
6	ME 21013	Engineering Thermodynamics I	2	1	1	4	3	5
7	EP 21013	Applied Electrical Engineering	2	1	1	4	3	5
Total			14	6	6	26	20	34

#### SECOND YEAR (Semester Two) (18 weeks)

Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 22001	English	2	1	0	3	2.5	4.5
2	EM 22004	Engineering Mathematics IV	4	2	0	6	5	9
3	ME 22011	Machine Drawing	1	0	2	3	2	3
4	ME 22012	Workshop Technology	1	0	2	3	2	3
5	ME 22015	Engineering Mechanics	2	1	0	3	2.5	4.5
6	ME 22013	Engineering Thermodynamics I	2	1	1	4	3	5
7	EP 22013	Applied Electrical Engineering	2	1	1	4	3	5
Total			14	6	6	26	20	34

#### THIRD YEAR (Semester One) (18 weeks)

			Period/week					
			Lect	Tut	Pract	Tot.		

Sr. No.	Code	Courses	Lect	Tut	Pract	Tot.	Credit Points	Independent Learning
1	E 31011	English	2	1	0	3	2.5	4.5
2	EM 31005	Engineering Mathematics V	4	2	0	6	5	9
3	ME 31013	Engineering Thermodynamics II	2	1	1	4	3	5
4	ME 31014	Strength of Materials I	2	1	1	4	3	5
5	ME 31015	Theory of Machines I	2	1	1	4	3	5
6	Met 31071	Engineering Materials	2	1	0	3	2.5	4.5
7	ME 31022	Production Technology	2	1	1	4	3	5
8	EcE 31014	Basic Electronic Engineering	2	1	1	4	3	5
Total			18	9	5	32	25	43

THIRD YEAR (Semester Two) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 32011	English	2	1	0	3	2.5	4.5
2	EM 32006	Engineering Mathematics VI	4	2	0	6	5	9
3	ME 32013	Engineering Thermodynamics II	2	1	1	4	3	5
4	ME 32014	Strength of Materials I	2	1	1	4	3	5
5	ME 32015	Theory of Machines I	2	1	1	4	3	5
6	Met 32071	Engineering Materials	2	1	0	3	2.5	4.5
7	ME 32022	Production Technology	2	1	1	4	3	5
8	EcE 32014	Basic Electronic Engineering	2	1	1	4	3	5
Total			18	9	5	32	25	43

FOURTH YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 41011	English	2	1	0	3	2.5	4.5
2	EM 41007	Engineering Mathematics VII	4	2	0	6	5	9
3	ME 41032	Manufacturing System and Automations	2	0	2	4	3	5
4	ME 41031	Design of Machine elements	2	1	0	3	2.5	4.5
5	ME 41033	Heat Transfer	2	1	1	4	3	5
6	ME 41014	Strength of Materials II	2	1	1	4	3	5
7	ME 41016	Fluid Mechanics I	2	1	1	4	3	5

8	ME 41015	Theory of Machines II	2	1	1	4	3	5
Total			18	8	6	32	25	43

FOURTH YEAR (Semester Two) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut.	Pract	Tot.		
1	E 42011	English	2	1	0	3	2.5	4.5
2	EM 42008	Engineering Mathematics VIII	4	2	0	6	5	9
3	ME 42042	CAD/CAM	2	0	2	4	3	5
4	ME 42031	Design of Machine elements	2	1	0	3	2.5	4.5
5	ME 42033	Heat Transfer	2	1	1	4	3	5
6	ME 42014	Strength of Materials II	2	1	1	4	3	5
7	ME 42016	Fluid Mechanics I	2	1	1	4	3	5
8	ME 42015	Theory of Machines II	2	1	1	4	3	5
Total			18	8	6	32	25	43

FIFTH YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 51011	English	2	1	0	3	2.5	4.5
2	ME 51043	Gas Turbine Theory	2	1	1	4	3	5
3	ME 51015	Vibration and Control	2	1	1	4	3	5
4	ME 51017	Refrigeration and Air-conditioning	2	1	1	4	3	5
5	ME 51028	Industrial Engineering and Management	2	1	0	3	2.5	4.5
6	ME 51023	Internal Combustion Engines	2	1	1	4	3	5
7	ME 51016	Fluid Mechanics II	2	1	1	4	3	5
8	ME 51031	Machine Design and Project	2	0	1	3	2.5	4.5
Total			16	7	6	29	22.5	38.5

FIFTH YEAR (Semester Two) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 52011	English	2	1	0	3	2.5	4.5
2	ME 52043	Gas Turbine Theory	2	1	1	4	3	5
3	ME 52016	Fluid Mechanics II	2	1	1	4	3	5

4	ME 52015	Vibration and Control	2	1	1	4	3	5
5	ME 52017	Refrigeration and Air-conditioning	2	1	1	4	3	5
6	ME 52028	Industrial Engineering and Management	2	1	0	3	2.5	4.5
7	ME 52023	Internal Combustion Engines	2	1	1	4	3	5
8	ME 52031	Machine Design and Project	2	0	1	3	2.5	4.5
Total			16	7	6	29	22.5	38.5

FINAL YEAR (Semester One) (18 weeks)									
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning	
			Lect	Tut	Pract	Tot.			
1	E 61011	English	2	1	0	3	2.5	4.5	
2	ME 61020	Renewable Energy	2	1	1	4	3	5	
3	ME 61019	Computer Application in Mech Engg	3	1	2	6	4.5	7.5	
4	ME 61028	Engineering Management	2	1	0	3	2.5	4.5	
5	HSS 61012	Humanities and Social Science	3	0	0	3	3	6	
Total			12	4	3	19	15.5	27.5	

FINAL YEAR (Semester Two) (18 weeks)
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Graduation Project/ Research Report

Cause	3rd to Final		1st to Final		
Total Time	205		311		
Academic Time	45	22 %	107	34.41 %	
Core Subject Time	160	78 %	204	65.59 %	
Industrial Attachment					
Mini-Thesis	30				
Credit Points	160.5		241.5		
Credit Points (75%)	120.375		181.125		

Thanlyin Technological University (TTU)  
Department of Information Technology  
Curriculum for Bachelor of Engineering (New 6 year Direct Intake System)

FIRST YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 11011	Myanmar	2	0	0	3	2	4
2	E 11011	English	2	1	0	3	2.5	4.5
3	EM 11001	Engineering Mathematics I	4	2	0	6	5	9
4	E.Ch 11011	Engineering Chemistry I	3	1	2	6	4.5	7.5
5	E.Ph 11011	Engineering Physics I	2	1	2	5	3.5	5.5
6	ME 11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	IT 11013	Introduction to Computer Systems	2	0	1	3	2.5	4.5
Total			16	5	7	28	22	38

FIRST YEAR (Second Semester)
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Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 12011	Myanmar	2	0	0	2	2	4
2	E 12011	English	2	1	0	3	2.5	4.5
3	EM 12002	Engineering Mathematics II	4	2	0	6	5	9
4	E.Ch 12011	Engineering Chemistry II	3	1	2	6	4.5	7.5
5	E.Ph 12011	Engineering Physics II	2	1	2	5	3.5	5.5
6	ME 12011	Basic Engineering Drawing II	1	0	2	3	2	3
7	IT 12013	Introduction to Computer Systems	2	0	1	3	2.5	4.5
Total			16	5	7	28	22	38

SECOND YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 21011	English	2	1	0	3	2.5	4.5
2	EM 21003	Engineering Mathematics III	4	2	0	6	5	9
3	IT 21011	Basic Electricity and Electronics	2	1	1	4	3	5
4	IT 21012	Digital Logic Design	2	1	1	4	3	5
5	IT 21021	Programming Language in C++	2	0	2	4	3	5
6	IT 21051	Data Communications	2	0	1	3	2.5	4.5
7	IT 21041	Web Development Technologies I	2	0	2	4	3	5
Total			16	5	7	28	22	38

SECOND YEAR (Second Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 22011	English	2	1	0	3	2.5	4.5
2	EM 22004	Engineering Mathematics IV	4	2	0	6	5	9
3	IT 22011	Basic Electricity and Electronics	2	1	1	4	3	5
4	IT 22012	Digital Logic Design	2	1	1	4	3	5
5	IT 22021	Programming Language in C++	2	0	2	4	3	5
6	IT 22051	Data Communications	2	0	1	3	2.5	4.5
7	IT 22041	Web Development Technologies I	2	0	2	4	3	5
Total			16	5	7	28	22	38

THIRD YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 31011	English	2	1	0	3	2.5	4.5
2	EM 31005	Engineering Mathematics V	4	2	0	6	5	9
3	IT 31052	Computer Networking	2	1	1	4	3	5
4	IT 31031	Database Management Systems	2	1	1	4	3	5
5	IT 31022	Programming Language in Java	2	0	2	4	3	5
6	IT 31023	Data Structure	2	0	1	3	2.5	4.5
7	IT 31042	Web Development Technologies II	2	0	2	4	3	5
Total			16	5	7	28	22	38

THIRD YEAR (Second Semester)					
Sr.			Period /week(avg.)	Credit	Independent

No.	Course No.	Courses	Lect.	Tut.	Pract.	Tot.	Points	Learning
1	E 32011	English	2	1	0	3	2.5	4.5
2	EM 32015	Engineering Mathematics VI	4	2	0	6	5	9
3	IT 32052	Computer Networking	2	1	1	4	3	5
4	IT 32031	Database Management Systems	2	1	1	4	3	5
5	IT 32022	Programming Language in Java	2	0	2	4	3	5
6	IT 32023	Data Structure	2	0	1	3	2.5	4.5
7	IT 32042	Web Development Technologies II	2	0	2	4	3	5
Total			16	5	7	28	22	38

FOURTH YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 41011	English	2	1	0	3	2.5	4.5
2	EM 41016	Engineering Mathematics VII	4	2	0	6	5	9
3	IT 41024	Operating Systems	2	1	1	4	3	5
4	IT 41032	Advanced Data Management Techniques	2	1	1	4	3	5
5	IT 41053	TCP/ IP	2	0	1	3	2.5	4.5
6	IT 41018	Modern Control Systems	2	1	1	4	3	5
7	IT 41014	Computer Architecture	2	1	1	4	3	5
Total			16	7	5	28	22	38

FOURTH YEAR (Second Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 42011	English	2	1	0	3	2.5	4.5
2	EM 42016	Engineering Mathematics VIII	4	2	0	6	5	9
3	IT 42024	Operating Systems	2	1	1	4	3	5
4	IT 42032	Advanced Data Management Techniques	2	1	1	4	3	5
5	IT 42053	TCP/ IP	2	0	1	3	2.5	4.5
6	IT 42018	Modern Control Systems	2	1	1	4	3	5
7	IT 42014	Computer Architecture	2	1	1	4	3	5
Total			16	7	5	28	22	38

FIFTH YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 51011	English						

# Technological Universities Study Support Program (Lectures)

By Dr Kyaw Naing

[www.highlightcomputer.com/tulectures.htm](http://www.highlightcomputer.com/tulectures.htm)

This website contains the Youtube video /audio/ writing on whiteboard lessons & reference books for TU Engineering Courses Curriculums.

If any link is not working, please send the link to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

**For the subjects without Videos video /audio/ writing on whiteboard lessons, the students should be encouraged to read the textbook and do self study.**

**Up to Year 3, lectures should be given. But from Year 4 to completion, the students should be directed to self-guided studies in which they read the chapters of the textbooks, try to understand the problems/ solution in textbooks and calculation handbooks and write their own notes. The role of teachers should focus on guiding and assisting the students and assessing their works.**

TU Teachers can freely upload their lessons & notes to [www.filefactory.com](http://www.filefactory.com)

Filefactory can allow free uploads up to 3 months. If you want to house your files permanently, you can send your link to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com) also mention your name and name of your TU. We will download your resources and repost to permanent hosting site and provide you with the link.

**MyanmarTechnological University Curriculum**

[www.highlightcomputer.com/ttucurriculum.htm](http://www.highlightcomputer.com/ttucurriculum.htm)

[Electronic Engineering](#)(BE-EC)

[Electrical Power Engineering](#) (BE-EP)

[Civil Engineering](#)(BE-Civil)

[Mechanical Engineering](#) (BE-Mech)

[ICT Engineering](#) (BE-ICT)

[Mechatronics Engineering](#)(BE-Mechatronics)

[Chemical Engineering](#) (BE-Chemical)

[Petroleum Engineering](#)(BE-Petroleum)

## **ENGINEERING CALCULATIONS HANDBOOKS**

## **ENGINEERING FUNDAMENTAL TESTS & PROFESSIONAL ENGINEER EXAMINATION REFERENCES**

## **ELECTRICAL+MECHANICAL+CIVIL ENGINEERING PRACTICALS**

### **Other BE Level Curriculums**

[Architectural Engineering \(BE-Architectural Engg\)](#)  
(First three years common with BE-Civil)

[Metallurgical & Materials Engineering \(BE-Met & Mat\)](#)  
(First three years common with BE-Mechanical)

[Marine Electrical ,Electronics & Mechatronics  
Engineering](#) (BE-Marine EE Mechatronics)  
(First four years common with BE-Mechatronics)

[Mineral Extraction & Explosion Protection Engineering](#)(BE-MinExp)  
(First four years common with BE-Petroleum)

[Renewable Energy Engineering](#) (BE-Renewable Engg)

Thanlyin Technological University (TTU)  
Department of Electronic Engineering  
Curriculum for Bachelor of Engineering  
(New 6 year Direct Intake System)

### **BE (Electronics) Year 1**

M-11011	Myanmar I				
E-11011	English I				
EM-11001	Engineering Mathematics				
	Introductory Mathematics				
	Yr 11+12 Maths 1-Rationals, Polynomials, Equations <b>Maths (001) Yr11+12 to Maths (021) Yr 11+12</b>				
	<table><tr><td>Link for power-points to view with computer</td><td><a href="http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip">http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip</a></td></tr><tr><td>Link for JPEG+MP3 to view with portable DVD Player</td><td><a href="http://www.filefactory.com/file/3lgvs3li6kpi/Yr_11_12_Maths_1_DVD_zip">http://www.filefactory.com/file/3lgvs3li6kpi/Yr_11_12_Maths_1_DVD_zip</a></td></tr></table>	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip">http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip</a>	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3lgvs3li6kpi/Yr_11_12_Maths_1_DVD_zip">http://www.filefactory.com/file/3lgvs3li6kpi/Yr_11_12_Maths_1_DVD_zip</a>
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip">http://www.filefactory.com/file/55xktujxseqj/Yr_11_12_Maths_1_PPT_zip</a>				
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3lgvs3li6kpi/Yr_11_12_Maths_1_DVD_zip">http://www.filefactory.com/file/3lgvs3li6kpi/Yr_11_12_Maths_1_DVD_zip</a>				
	Video <a href="https://youtu.be/afPIKAOmLrA">https://youtu.be/afPIKAOmLrA</a>				
	Yr 11+12 Maths 2-Circle Geometry <b>Maths (022) Yr11+12 to Maths (047) Yr 11+12</b>				
	<table><tr><td>Link for power-points to view with computer</td><td><a href="http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip">http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip</a></td></tr><tr><td>Link for JPEG+MP3 to view with portable DVD Player</td><td><a href="http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip">http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip</a></td></tr></table>	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip">http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip</a>	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip">http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip</a>
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip">http://www.filefactory.com/file/3j9q9npbaiz3/Yr_11_12_Maths_2a_PPT_zip</a>				
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip">http://www.filefactory.com/file/5rm7n1duw4gv/Yr_11_12_Maths_2a_DVD_zip</a>				

Video <a href="https://youtu.be/KxFAPOQBEEc">https://youtu.be/KxFAPOQBEEc</a>	
Yr 11+12 Maths 3A-Plotting Graphs <b>Maths (048) Yr11+12 to Maths (073) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip">http://www.filefactory.com/file/5bg04kzpn1av/Yr_11_12_Maths_3A_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip">http://www.filefactory.com/file/17koswfr5yyj/Yr_11_12_Maths_3A_DVD_zip</a>
Video <a href="https://youtu.be/V7DdiD_XXNg">https://youtu.be/V7DdiD_XXNg</a>	
Yr 11+12 Maths 4 Quadratic equations <b>Maths (074) Yr11+12 to Maths (123) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip">http://www.filefactory.com/file/61bwkp4g7xa1/Yr_11_12_Maths_4_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/112f3d8fpaet/Yr_11_12_Maths_4_DVD_zip">http://www.filefactory.com/file/112f3d8fpaet/Yr_11_12_Maths_4_DVD_zip</a>
Video <a href="https://youtu.be/QNzf5Qhcho8">https://youtu.be/QNzf5Qhcho8</a>	
<b>Mathematics</b>	
Yr 11+12 Maths 5–Trigo Compound angles <b>Maths (124) Yr11+12 to Maths (133) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip">http://www.filefactory.com/file/7dh9tw73vvhz/Yr_11_12_Maths-5_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip">http://www.filefactory.com/file/3h6gv344xwd9/Yr_11_12_Maths-5_DVD_zip</a>
Yr 11+12 Maths –6 - Half Compound Angles <b>Maths (134) Yr11+12 to Maths (151) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip">http://www.filefactory.com/file/6i33bfjxhi8p/Yr_11_12_Maths-6_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/jvxnubvijdz/Yr_11_12_Maths-6_DVD_zip">http://www.filefactory.com/file/jvxnubvijdz/Yr_11_12_Maths-6_DVD_zip</a>
Video <a href="https://youtu.be/sxJcFi9JrPo">https://youtu.be/sxJcFi9JrPo</a>	
<b>Mathematics</b>	
Yr 11+12 Maths 7—Trigo Problems <b>Maths (152) Yr11+12 to Maths (155) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip">http://www.filefactory.com/file/2dewz4dd1ws9/Yr_11_12_Maths_7_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/782mayjmgrwr/Yr_11_12_Maths-7_DVD_zip">http://www.filefactory.com/file/782mayjmgrwr/Yr_11_12_Maths-7_DVD_zip</a>
Video <a href="https://youtu.be/7UxTaL-DCKk">https://youtu.be/7UxTaL-DCKk</a>	
Yr 11+12 Maths –8-Trigo Equations <b>Maths (156) Yr11+12 to Maths (180) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip">http://www.filefactory.com/file/1zydhglalw0v/Yr_11_12_Maths-8_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip">http://www.filefactory.com/file/cwfzpu2rxqj/Yr_11_12_Maths-8_DVD_zip</a>
Yr 11+12 Maths -9-Parabola <b>Maths (181) Yr11+12 to Maths (198) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip">http://www.filefactory.com/file/2dahlr4voikt/Yr_11_12_Maths-9_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip">http://www.filefactory.com/file/6wdbd5334xbr/Yr_11_12_Maths-9_DVD_zip</a>
Video <a href="https://youtu.be/BJh6SRDxzVo">https://youtu.be/BJh6SRDxzVo</a>	
Yr 11+12 Maths-10 –Parametric Equations+ Permutation+ Combinations <b>Maths (199) Yr11+12 to Maths (224) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip">http://www.filefactory.com/file/rz2yo6eo8gl/Yr_11_12_Maths-10_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip">http://www.filefactory.com/file/3sbfzwyfzcer/Yr_11_12_Maths-10_DVD_zip</a>
Video <a href="https://youtu.be/Mzfxj6lydeQ">https://youtu.be/Mzfxj6lydeQ</a>	
<b>Maths 11</b> <a href="https://youtu.be/4KFCIr_MVyc">https://youtu.be/4KFCIr_MVyc</a>	
<b>Mathematics</b>	
Yr 11+12 Maths-12 –Factor Theorem + Remainder Theorem <b>Maths (225) Yr11+12 to Maths (240) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/136lrkgn6rx/Yr_11_12_Maths-12_PPT_zip">http://www.filefactory.com/file/136lrkgn6rx/Yr_11_12_Maths-12_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip">http://www.filefactory.com/file/6byom3fyza7f/Yr_11_12_Maths-12_DVD_zip</a>
Video <a href="https://youtu.be/20u2Jx6xnbw">https://youtu.be/20u2Jx6xnbw</a>	
Yr 11+12 Maths-13 –Graphing Polynomials + Integration <b>Maths (241) Yr11+12 to Maths (258) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/12lwg7gx0xpj/Yr11_12_Maths-13_PPT_zip">http://www.filefactory.com/file/12lwg7gx0xpj/Yr11_12_Maths-13_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip">http://www.filefactory.com/file/4bqy59l2rx1n/Yr_11_12_Maths-13_DVD_zip</a>
Video	

<https://youtu.be/hU00Wdtm8H0>

Yr 11+12 Maths 14 Integration Approximation **Maths (259) Yr11+12 to Maths (268) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip">http://www.filefactory.com/file/4jt47nx1fgwn/Yr11_12_Maths-14_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip">http://www.filefactory.com/file/os3n14w63zh/Yr_11_12_Maths-14_DVD_zip</a>

Video

<https://youtu.be/BxoPyYDoSHk>

Yr 11+12 Maths -15–Graphing Inverse Function **Maths (269) Yr11+12 to Maths (290) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip">http://www.filefactory.com/file/2tpasibu1e1h/Yr_11_12_Maths-15_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip">http://www.filefactory.com/file/m2x128nxo3/Yr_11_12_Maths-15_DVD_zip</a>

Video

<https://youtu.be/RXmABGXM3To>

Yr 11+12 Maths-16 –Trigo Evaluation **Maths (291) Yr11+12 to Maths (307) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip">http://www.filefactory.com/file/5zb7nx7gbde1/Yr_11_12_Maths-16_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip">http://www.filefactory.com/file/5h29fm9lbw7v/Yr_11_12_Maths-16_DVD_zip</a>

Video

<https://youtu.be/LGLHqnoVeS8>

Yr 11+12 Maths-17 –Integration + Application of Calculus **Maths (308) Yr11+12 to Maths (328) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1feczcppe8rp/Yr_11_12_Maths-17_PPT_zip">http://www.filefactory.com/file/1feczcppe8rp/Yr_11_12_Maths-17_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66zpfudn8wpx/Yr_11_12_Maths-17_DVD_zip">http://www.filefactory.com/file/66zpfudn8wpx/Yr_11_12_Maths-17_DVD_zip</a>

Video

<https://youtu.be/hD6b2SBJ0Fs>

Yr 11+12 Maths-18 –Application of Calculus **Maths (329) Yr11+12 to Maths (330) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/14knjfb1vz8n/Yr_11_12_Maths-18_PPT_zip">http://www.filefactory.com/file/14knjfb1vz8n/Yr_11_12_Maths-18_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip">http://www.filefactory.com/file/65yzawq56mp5/Yr_11_12_Maths-18_DVD_zip</a>

Video

<https://youtu.be/I5M3dWR-c-E>

Yr 11+12 Maths-19 –Simple Harmonic Oscillation **Maths (331) Yr11+12 to Maths (344) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip">http://www.filefactory.com/file/179d2suvngub/Yr_11_12_Maths-19_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip">http://www.filefactory.com/file/1z85ofskm553/Yr_11_12_Maths-19_DVD_zip</a>

Video

[https://youtu.be/\\_zb8d71E-QU](https://youtu.be/_zb8d71E-QU)

<https://youtu.be/OQCjs7CsMy8>

## Mathematics

Yr 11+12 Maths 20 –Projectile Motion **Maths (344) Yr11+12 to Maths (360) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip">http://www.filefactory.com/file/2430m1081vp9/Yr_11_12_Maths-20_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip">http://www.filefactory.com/file/1f5qaf3mdmk9/Yr_11_12_Maths-20_DVD_zip</a>

Video

<https://youtu.be/ZoFwF8xlxHA>

Yr 11+12 Maths 21 –Binomial Theorem **Maths (361) Yr11+12 to Maths (370) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip">http://www.filefactory.com/file/6ornn5mjue9j/Yr_11_12_Maths-21_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip">http://www.filefactory.com/file/4e8i727b0hcv/Yr_11_12_Maths-21_DVD_zip</a>

Video

<https://youtu.be/BTGRHmEG5d0>

Yr 11+12 Maths-22 –Probability+ Binomial Distribution **Maths (371) Yr11+12 to Maths (387) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4y86h0clohxx/Yr_11_12_Maths-22_PPT_zip">http://www.filefactory.com/file/4y86h0clohxx/Yr_11_12_Maths-22_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip">http://www.filefactory.com/file/70na80rd5gp7/Yr_11_12_Maths-22_DVD_zip</a>

Video

<https://youtu.be/Lw75Cy0fzHc>

Yr 11+12 Maths 23–Changing Recurring Decimals in to Fractions **Maths (388) Yr11+12 to Maths (393) Yr 11+12**

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip">http://www.filefactory.com/file/xf07txproj9/Yr_11_12_Maths-23_PPT_zip</a>
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip">http://www.filefactory.com/file/6t4t60pzt5cl/Yr_11_12_Maths-23_DVD_zip</a>
Video <a href="https://youtu.be/F4jP4NVEiW0">https://youtu.be/F4jP4NVEiW0</a>	
Yr 11+12 Maths 24 –Simplifying Algebraic Expression <b>Maths (394) Yr11+12 to Maths (415) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip">http://www.filefactory.com/file/34joaxfp0oy5/Yr_11_12_Maths-24_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5wo1f7od9jij/Yr_11_12_Maths-24_DVD_zip">http://www.filefactory.com/file/5wo1f7od9jij/Yr_11_12_Maths-24_DVD_zip</a>
Video <a href="https://youtu.be/fvqNKi-dSyU">https://youtu.be/fvqNKi-dSyU</a>	
Yr 11+12 Maths 25 Solving simultaneous equations <b>Maths (416) Yr11+12 to Maths (434) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip">http://www.filefactory.com/file/4ot380b8ql61/Yr_11_12_Maths-25_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/a7cugmrxf/Yr_11_12_Maths-25_DVD_zip">http://www.filefactory.com/file/a7cugmrxf/Yr_11_12_Maths-25_DVD_zip</a>
Video <a href="https://youtu.be/bLRBZcM-zsk">https://youtu.be/bLRBZcM-zsk</a>	
Yr 11+12 Maths 26 –Percentage , discount <b>Maths (435) Yr11+12 to Maths (438) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip">http://www.filefactory.com/file/pk10t382sev/Yr_11_12_Maths-26_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip">http://www.filefactory.com/file/3fjp69sfat7p/Yr_11_12_Maths-26_DVD_zip</a>
Video <a href="https://youtu.be/9DzrWJHKLBO">https://youtu.be/9DzrWJHKLBO</a>	
Yr 11+12 Maths 27 –Geometry problems solving <b>Maths (439) Yr11+12 to Maths (461) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip">http://www.filefactory.com/file/43jcevd003p/Yr_11_12_Maths-27_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip">http://www.filefactory.com/file/59fpk2rabza7/Yr_11_12_Maths-27_DVD_zip</a>
Video <a href="https://youtu.be/jLHR9IP5sTQ">https://youtu.be/jLHR9IP5sTQ</a>	
Yr 11+12 Maths 28– Trigo function values <b>Maths (462) Yr11+12 to Maths (485) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip">http://www.filefactory.com/file/65jy4gle19u7/Yr_11_12_Maths-28_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip">http://www.filefactory.com/file/4pokmrn7g6jd/Yr_11_12_Maths-28_DVD_zip</a>
Video <a href="https://youtu.be/5iMZIP3dAHs8">https://youtu.be/5iMZIP3dAHs8</a>	
Yr 11+12 Maths 29–Trigo ratio values <b>Maths (486) Yr11+12 to Maths (498) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip">http://www.filefactory.com/file/18991tr7g45f/Yr_11_12_Maths-29_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip">http://www.filefactory.com/file/4zk5dsf70w4n/Yr_11_12_Maths-29_DVD_zip</a>
Video <a href="https://youtu.be/ABEJoLGBntk">https://youtu.be/ABEJoLGBntk</a>	
<b>Mathematics</b>	
Yr 11+12 Maths 30–Trigo problems, angle of elevation <b>Maths (499) Yr11+12 to Maths (509) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip">http://www.filefactory.com/file/3lmbazk8wbs5/Yr_11_12_Maths-30_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip">http://www.filefactory.com/file/xogavbtwwad/Yr_11_12_Maths-30_DVD_zip</a>
Video <a href="https://youtu.be/UU2OO8iW2nk">https://youtu.be/UU2OO8iW2nk</a>	
<b>Mathematics</b>	
Yr 11+12 Maths31 – XY Line gradient <b>Maths (510) Yr11+12 to Maths (527) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip">http://www.filefactory.com/file/2aeim6pg4nh9/Yr_11_12_Maths-31_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip">http://www.filefactory.com/file/4el94w5jfdt1/Yr_11_12_Maths-31_DVD_zip</a>
Video <a href="https://youtu.be/IwoTOF7lhSI">https://youtu.be/IwoTOF7lhSI</a>	
<b>Mathematics</b>	
Yr 11+12 Maths 32 - Mid points between points <b>Maths (528) Yr11+12 to Maths (551) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1o9ru2073ab/Yr_11_12_Maths-32_PPT_zip">http://www.filefactory.com/file/1o9ru2073ab/Yr_11_12_Maths-32_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6yotutffllmf/Yr_11_12_Maths-32_DVD_zip">http://www.filefactory.com/file/6yotutffllmf/Yr_11_12_Maths-32_DVD_zip</a>
Video <a href="https://youtu.be/FTr_FM6ljwE">https://youtu.be/FTr_FM6ljwE</a>	
<b>Year 11+12 WEEK 31</b>	
<b>Mathematics</b>	
Yr 11+12 Maths 33 Angle of inclination / Graphs of functions <b>Maths (552) Yr11+12 to Maths (571) Yr 11+12</b>	

Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip">http://www.filefactory.com/file/2s2kljhr0q81/Yr_11_12_Maths-33_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip">http://www.filefactory.com/file/33jle77fwobz/Yr_11_12_Maths-33_DVD_zip</a>
Video <a href="https://youtu.be/uZxfV88QXlg">https://youtu.be/uZxfV88QXlg</a> <b>Mathematics</b> Yr 11+12 Maths 34 Locus & Parabola <b>Maths (572) Yr11+12 to Maths (591) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip">http://www.filefactory.com/file/6pay81v88n4d/Yr_11_12_Maths_34_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip">http://www.filefactory.com/file/2us0hu2hfgxl/Yr_11_12_Maths_34_DVD_zip</a>
Video <a href="https://youtu.be/nggwEsSMNIM">https://youtu.be/nggwEsSMNIM</a> <b>Mathematics</b> Yr 11+12 Maths 35 Series <b>Maths (592) Yr11+12 to Maths (609) Yr 11+12</b>	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip">http://www.filefactory.com/file/4hpyadfa4cwf/Yr_11_12_Maths_35_PPT_zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip">http://www.filefactory.com/file/31u9lg41u8ml/Yr_11_12_Maths_35_DVD_zip</a>
Video <a href="https://youtu.be/sj6NW_p-N-w">https://youtu.be/sj6NW_p-N-w</a> <b>Mathematics</b> Yr 11+12 Maths 36 Tangent & Derivatives of Functions	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip">http://www.filefactory.com/file/t4r1mdf419b/n/Yr_11+12_Maths_36_PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip">http://www.filefactory.com/file/5rgb9jnqt8ux/n/Yr_11+12_Maths_36_DVD.zip</a>
<b>Year 11+12 WEEK 32</b> <b>Mathematics</b> Yr 11+12 Maths 37 Application of Geometrical Properties	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip">http://www.filefactory.com/file/4ipyz5fhzeyz/Yr%2011%2B12%20Maths%2037%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip">http://www.filefactory.com/file/66ya3szp93tx/n/Yr_11+12_Maths_37_DVD.zip</a>
<b>Mathematics</b> Yr 11+12 Maths 38 –Co-ordinate Methods in Geometry	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip">http://www.filefactory.com/file/3wfehbei6qlt/Yr%2011%2B12%20Maths%2038%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip">http://www.filefactory.com/file/5zlb4nz56baf/n/Yr_11+12_Maths_38_DVD.zip</a>
<b>Mathematics</b> Yr 11+12 Maths 39 Plotting graph/ Maxima & Minima	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip">http://www.filefactory.com/file/43zytpqn0tet/Yr%2011%2B12%20Maths%2039%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4zz8aah5h7tj/n/Maths_(39)Yr11+12_DVD.zip">http://www.filefactory.com/file/4zz8aah5h7tj/n/Maths_(39)Yr11+12_DVD.zip</a>
<b>Mathematics</b> Yr 11+12 Maths 40 Definite Integral	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip">http://www.filefactory.com/file/72b2j2bvxtbd/Yr%2011%2B12%20Maths%2040%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3fw0doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip">http://www.filefactory.com/file/3fw0doi1tyr/Yr%2011%2B12%20Maths%2040%20DVD.zip</a>
<b>Year 11+12 WEEK 33</b> <b>Mathematics</b> Yr 11+12 Maths 41 Exponential & Logarithmic Functions	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/34u19woalnki/Yr%2011%2B12%20Maths%2041%20PPT.zip">http://www.filefactory.com/file/34u19woalnki/Yr%2011%2B12%20Maths%2041%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/27a9ajkn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip">http://www.filefactory.com/file/27a9ajkn3lr/Yr%2011%2B12%20Maths%2041%20DVD.zip</a>
<b>Mathematics</b> Yr 11+12 Maths 42 Trigonometric Functions	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip">http://www.filefactory.com/file/4tmhsqbrvivh/Yr%2011%2B12%20Maths%2042%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip">http://www.filefactory.com/file/67r8oe8b1jfl/Yr%2011%2B12%20Maths%2042%20DVD.zip</a>
<b>Mathematics</b> Yr 11+12 Maths 43 Application of calculus to physical world	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip">http://www.filefactory.com/file/18sumh0xp0jn/Yr%2011%2B12%20Maths%2043%20PPT.zip</a>



Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip">http://www.filefactory.com/file/16ngeyiyrk67/Yr%2011%2B12%20Maths%2043%20DVD.zip</a>
<b>Mathematics</b>	
Yr 11+12 Maths 44 Probability	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip">http://www.filefactory.com/file/cut4a2rskut/Yr%2011%2B12%20Maths%2044.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip">http://www.filefactory.com/file/j8swp5ju5ih/Yr%2011%2B12%20Maths%2044%20DVD.zip</a>
<b>Mathematics</b>	
Yr 11+12 Maths 45 Application of series	
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/numpzwt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip">http://www.filefactory.com/file/numpzwt5pz/Yr%2011%2B12%20Maths%2045%20PPT.zip</a>
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip">http://www.filefactory.com/file/1qnmy5qmjfc/Yr%2011%2B12%20Maths%2045%20DVD.zip</a>

## **BAE401 Advanced Engineering Mathematics**

Day 3 Part 1A

[Advanced Engineering Mathematics 1](#)

Day 3 Part 1B

[Advanced Engineering Mathematics 2](#)

### **Day 3 Part 1(A)**

[www.highlightcomputer.com/Day 3 Part1-BAE 401 Advanced Engineering Mathematics.zip](http://www.highlightcomputer.com/Day%203%20Part1-BAE%20401%20Advanced%20Engineering%20Mathematics.zip)

### **BAE402 Calculus**

Day 3 Part 2A

[Calculus 1](#)

[Calculus 2](#)

[Calculus 3](#)

[Calculus 4](#)

**Day 3 Part 1**

### **BAE 401 Advanced Engineering Mathematics**

An introduction to theory of complex variables

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Applied Mathematics by examples (Theory)

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Continuous Distribution

Page 8- Normal Distribution

Discrete Distribution

Geometric Distribution, Pascal Distribution

Page 6,9

Elementary Linear Algebra

Page 14 Graphs of functions

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Page 17 Complex Numbers

Page 18 Laws

Page 20,21 Polar form of complex numbers

Ex 1-6-3, 1-6-4

Page 23,24 Quadratic Formula

Page 47 Vector Products

Page 49 Angle between two vectors

Page 59,60 Cross product

Page 73-System of equations, Page 76,81,82

Matrices –Page 97,98,99,100 Matrices Multiplication

**Essential Engineering Mathematics**

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Page 43,48-continuity

Page 52 Differentiation

Page 50 Chain Rule

Page 81 Integral Page 82,85,86

**Integration & Differential Equations**

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Page 69 Homogeneous Equation

Example 4 Page 70,71

### **Day 3 Part 2**

[www.highlightcomputer.com/Day 3 Part1-BAE 402 Calculus.zip](http://www.highlightcomputer.com/Day%203%20Part1-BAE%20402%20Calculus.zip)

videos

### Day 3 Part 2

#### BAE 402 Calculus

##### Calculus 1a

Page 52,53,54,55,57 Inverse Functions

Page 58 Integration, Page 59,60,61,62,63,64,65,66,68

Simple Differential Equations Page 79

Linear Differential Equations First Order Page 80,81,83,84

Page 91,96,97- Linear differential equations of second order with variable coefficient

##### Calculus 2a

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Page 24 Gradient Field

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##### Calculus 3C-1

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##### Calculus 4b

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E050/E126

Page 87 to 101 of [http://www.filefactory.com/file/cf9bf8f/n/Video\\_Lessons.pdf](http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf)

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### Mathematics

#### E050Part1.zip

##### Lesson 1

<http://youtu.be/67MNUQOMiKw>

<http://youtu.be/GMrOtiVGcSg>

##### Lesson 2

<http://youtu.be/GMrOtiVGcSg>

##### Lesson 3

<http://youtu.be/3MnPK4HC0oc>

##### Lesson 4

<http://youtu.be/4Qiv5qvcxG0>

##### Lesson 5

<http://youtu.be/NJFYPLXINDM>

##### Lesson 6

<http://youtu.be/Eir9Genn5ZM>

<http://www.filefactory.com/file/cf90857/n/E050Part1.zip>

#### E050 Lesson 7 Mensuration+Area.zip

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#### E050 Lesson 8 Differentiation.zip

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[http://youtu.be/VLhQD\\_wrWY8](http://youtu.be/VLhQD_wrWY8)

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#### E050 Lesson 9 Integration.zip

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[http://www.filefactory.com/file/c4edf6f/n/E050\\_Lesson\\_9\\_Integration.zip](http://www.filefactory.com/file/c4edf6f/n/E050_Lesson_9_Integration.zip)

#### E050 Lesson 10 Integration of trigo functions.zip

<http://youtu.be/Xp6RiXES0qs>

[http://www.filefactory.com/file/c0ac6af/n/E050\\_Lesson\\_10\\_Integration\\_of\\_trigo\\_functions.zip](http://www.filefactory.com/file/c0ac6af/n/E050_Lesson_10_Integration_of_trigo_functions.zip)

#### E050 Lesson 11 Definite integral+Electrical application.zip

<http://youtu.be/GS26UxVilPA>

<http://youtu.be/AYXFfn8n4yM>

[http://www.filefactory.com/file/c0ac90b/n/E050\\_Lesson\\_11\\_Definite\\_integral\\_Electrical\\_application.zip](http://www.filefactory.com/file/c0ac90b/n/E050_Lesson_11_Definite_integral_Electrical_application.zip)

#### E050 Lesson 11 Exercises.zip

[http://www.filefactory.com/file/c0adacc/n/E050\\_Lesson\\_11\\_Exercises.zip](http://www.filefactory.com/file/c0adacc/n/E050_Lesson_11_Exercises.zip)

### The links contain the following lessons

E050 Lesson 1 Polynomials

E050 Lesson 2 Non linear equations

E050 Lesson 3 Logarithmic equation

E050 Lesson 4 Circular function

E050 Lesson 5 Trigonometric identities

E050 Lesson 6 Vector

E050 Lesson 7 Mensuration+Area

E050 Lesson 8 Differentiation

E050 Lesson 9 Integration

E050 Lesson 10 Integration of trigo functions

E050 Lesson 11 Definite integral+Electrical application

E050 Lesson 11 Exercises

Videos  
(English)

	<p>E026/E127  Page 26 to 50 of <a href="http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf">http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf</a>  <a href="http://www.highlightcomputer.com/Video_Lessons.pdf">www.highlightcomputer.com/Video_Lessons.pdf</a>  <b>Engineering Mathematics</b>  <a href="http://www.filefactory.com/file/cf88dd4/n/E026.zip">http://www.filefactory.com/file/cf88dd4/n/E026.zip</a>  <b>E026 Lesson 1 to 5</b>  <b>The links contain the following lessons</b>  E026 Lesson 1-Fourier  <a href="https://www.youtube.com/watch?v=QzYO2qCJGNg">https://www.youtube.com/watch?v=QzYO2qCJGNg</a>  <a href="http://youtu.be/fGL7VYtEBV4">http://youtu.be/fGL7VYtEBV4</a>    E026 Lesson 2-Differential equation  <a href="http://youtu.be/RjhgggG2p0">http://youtu.be/RjhgggG2p0</a>    E026 Lesson 3-Gamma+Beta Function  <a href="http://youtu.be/D-bUQ1Uyl_Y">http://youtu.be/D-bUQ1Uyl_Y</a>  <a href="http://youtu.be/6rNFJbbqzyl">http://youtu.be/6rNFJbbqzyl</a>    E026 Lesson 4-Vector analysis  <a href="http://youtu.be/T9OYT8RpqbA">http://youtu.be/T9OYT8RpqbA</a>    E026-Lesson 5-Laplace Transform  <b>Links</b>  E026 Harmonic Exercises  <a href="https://www.youtube.com/watch?v=VSdugImECDE">https://www.youtube.com/watch?v=VSdugImECDE</a>  <b>E026 Definite Integral</b>  <a href="https://www.youtube.com/watch?v=oal27HPNvhA">https://www.youtube.com/watch?v=oal27HPNvhA</a>  <b>E026 Harmonics</b>  <a href="https://www.youtube.com/watch?v=yFM7ajxKnXw">https://www.youtube.com/watch?v=yFM7ajxKnXw</a>  <a href="http://youtu.be/d5drjXEZKv0">http://youtu.be/d5drjXEZKv0</a>  <a href="http://youtu.be/NDUvNSO6il8">http://youtu.be/NDUvNSO6il8</a>  <a href="http://youtu.be/d5drjXEZKv0">http://youtu.be/d5drjXEZKv0</a>    Videos  (English) <b>E026 Multiple Integral</b>  <a href="http://youtu.be/amV5KiBi0jk">http://youtu.be/amV5KiBi0jk</a>  <a href="http://youtu.be/lAKJvYUTPil">http://youtu.be/lAKJvYUTPil</a>    E026-Lesson 6-Inverse Laplace+ Differential equation solution  <a href="http://youtu.be/yXulBJel_2w">http://youtu.be/yXulBJel_2w</a>  <a href="http://youtu.be/SPGeFn2icU0">http://youtu.be/SPGeFn2icU0</a>  <a href="http://youtu.be/4VLHZp6ioYg">http://youtu.be/4VLHZp6ioYg</a>  <a href="http://youtu.be/bYkylGd17PU">http://youtu.be/bYkylGd17PU</a>  <a href="http://youtu.be/GrYcm8FzAMY">http://youtu.be/GrYcm8FzAMY</a>  E026-Lesson 7-Matrices  <a href="http://youtu.be/99cNSVx4hgU">http://youtu.be/99cNSVx4hgU</a>  <a href="http://youtu.be/ziHu2UYwA5c">http://youtu.be/ziHu2UYwA5c</a>  <a href="http://youtu.be/m_7oVILNNSsl">http://youtu.be/m_7oVILNNSsl</a>  <a href="http://youtu.be/5hq-ZfZdCRI">http://youtu.be/5hq-ZfZdCRI</a>    E026-Lesson 8 Legendre Function  <a href="http://youtu.be/VWvysJQ1grs">http://youtu.be/VWvysJQ1grs</a>  E026-Lesson 9 Binomial Theorem+ Partial Differential equation  <a href="http://youtu.be/Nj4dWucl50">http://youtu.be/Nj4dWucl50</a>  E026-Lesson 10 Multiple Integral  <a href="http://youtu.be/amV5KiBi0jk">http://youtu.be/amV5KiBi0jk</a>    <a href="https://www.youtube.com/watch?v=yXulBJel_2w">https://www.youtube.com/watch?v=yXulBJel_2w</a>    <b>Maths 1-E050+G047.zip</b>    <b>Maths</b>      <a href="http://www.filefactory.com/file/c0b673d/n/Maths_1-E050_G047.zip">http://www.filefactory.com/file/c0b673d/n/Maths_1-E050_G047.zip</a>    <b>Maths 2-E026.zip</b>    <b>Advanced Maths</b>  </p>
Lectures	<p><b>1 BAE 401 Advanced Engineering Mathematics</b>  <a href="http://www.iqytechnicalcollege.com/BAE401.zip">www.iqytechnicalcollege.com/BAE401.zip</a>  <b>2 BAE 402 Calculus</b>  <a href="http://www.iqytechnicalcollege.com/BAE402.zip">www.iqytechnicalcollege.com/BAE402.zip</a></p>

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	Engineering Chemistry I	
	<b>Chemistry</b> Yr 11+12 Chemistry 1-Carbon Chemistry <b>Chemistry (001) Y11+12 to Chemistry (042) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip">http://www.filefactory.com/file/1bm26hidjc5/Yr_11_12_Chemistry_1_PPT_zip</a>
	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip">http://www.filefactory.com/file/4iaet719aisx/Yr_11_12_Chemistry_1_DVD_zip</a>
	<b>Chemistry</b> Yr 11+12 Chemistry 2a-Industrial uses & production of Organic Compounds <b>Chemistry (043) Y11+12 to Chemistry (085) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip">http://www.filefactory.com/file/563iik1u5hn/Yr_11_12_Chemistry_2-a_PPT_zip</a>
	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip">http://www.filefactory.com/file/44b4nw21thib/Yr_11_12_Chemistry_2-a_DVD_zip</a>
	<b>Chemistry</b> Yr 11+12 Chemistry 3A-Electro-Chemistry <b>Chemistry (0086) Y11+12 to Chemistry (110) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip">http://www.filefactory.com/file/6k628o9r60ml/Yr_11_12_Chemistry_3A_PPT_zip</a>
	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip">http://www.filefactory.com/file/7gv7fcr0q18b/Yr_11_12_Chemistry_3A_DVD_zip</a>
	Yr 11+12 Chemistry 3B Electrical Cells <b>Chemistry (111) Y11+12 to Chemistry (145) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/68bkb2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip">http://www.filefactory.com/file/68bkb2uhckg9/Yr_11_12_Chemistry_3B_PPT_zip</a>
	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip">http://www.filefactory.com/file/3htp0siz3xxh/Yr_11_12_Chemistry_3B_DVD_zip</a>
	Video <a href="https://youtu.be/_OhRYtxiTS0">https://youtu.be/_OhRYtxiTS0</a> Yr 11+12 Chemistry 3C-Electro-chemical Cells <b>Chemistry (146) Y11+12 to Chemistry (175) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip">http://www.filefactory.com/file/2syd63ux58sv/Yr_11_12_Chemistry_3C_PPT_zip</a>
	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip">http://www.filefactory.com/file/33wm75kwz0zh/Yr_11_12_Chemistry_3C_DVD_zip</a>
	Video <a href="https://youtu.be/KnllmfAk1a4">https://youtu.be/KnllmfAk1a4</a> Yr 11+12 Chemistry 4A- Nuclear Chemistry <b>Chemistry (176) Y11+12 to Chemistry (211) Y11+12</b>	
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	Video <a href="https://youtu.be/-pYr7fxYEDw">https://youtu.be/-pYr7fxYEDw</a> <b>Chemistry</b> Yr 11+12 Chemistry 4B--Nuclear Chemistry <b>Chemistry (212) Y11+12 to Chemistry (244) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip">http://www.filefactory.com/file/57xqitimalcf/Yr_11_12_Chemistry_4B_PPT_zip</a>
	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip">http://www.filefactory.com/file/2jsc66zdhza3/Yr_11_12_Chemistry_4B_DVD_zip</a>
	Video <a href="https://youtu.be/f6OaLtASWfQ">https://youtu.be/f6OaLtASWfQ</a> Yr 11+12 Chemistry 5A-Properties of Acidic Oxides <b>Chemistry (245) Y11+12 to Chemistry (287) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip">http://www.filefactory.com/file/4lgo6pmm1zcn/Yr_11_12_Chemistry_5_A_PPT_zip</a>
	Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip">http://www.filefactory.com/file/6spd909w0aqn/Yr_11_12_Chemistry_5_A_DVD_zip</a>
	Yr 11+12 Chemistry 5B-Properties of Acidic Oxides <b>Chemistry (288) Y11+12 to Chemistry (302) Y11+12</b>	
	Link for power-points to view with computer	<a href="http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip">http://www.filefactory.com/file/4wz11twlgnrp/Yr_11_12_Chemistry_5_B_PPT_zip</a>
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	Video <a href="https://youtu.be/dAwX6y1fYSE">https://youtu.be/dAwX6y1fYSE</a> <b>Chemistry 6</b> <a href="https://youtu.be/CcgvTmll8Xg">https://youtu.be/CcgvTmll8Xg</a>  <b>Chemistry 6A</b> <a href="https://youtu.be/_xRKf4aTIR8">https://youtu.be/_xRKf4aTIR8</a> <b>Chemistry 6B</b> <a href="https://youtu.be/7iWtCGIb7q4">https://youtu.be/7iWtCGIb7q4</a> <b>Chemistry</b>	

Yr 11+12 Chemistry 7A –Application of PH		Chemistry (303) Y11+12 to Chemistry (348) Y11+12
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip">http://www.filefactory.com/file/2g98x1jgr267/Yr_11_12_Chemistry_7A_PPT_zip</a>	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip">http://www.filefactory.com/file/6g39xdlag301/Yr_11_12_Chemistry_7A_DVD_zip</a>	
Video <a href="https://youtu.be/VxBsIUBsjTA">https://youtu.be/VxBsIUBsjTA</a>		
Yr 11+12 Chemistry 7B–Volumetric Analysis Titration		Chemistry (341) Y11+12 to Chemistry (373) Y11+12
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Video <a href="https://youtu.be/StaFWZTGZ3I">https://youtu.be/StaFWZTGZ3I</a>		
Yr 11+12 Chemistry-8–Titration+ Esters		
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip">http://www.filefactory.com/file/42s3rr9cilap/Yr_11_12_Chemistry_8_PPT_zip</a>	
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Video <a href="https://youtu.be/79ZBL1h8CBA">https://youtu.be/79ZBL1h8CBA</a>		
Yr 11+12 Chemistry-8 -Titration+ Esters		Chemistry (374) Y11+12 to Chemistry (407) Y11+12
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip">http://www.filefactory.com/file/52le71z8926b/Yr_11_12_Chemistry_8_DVD_zip</a>	
Yr 11+12 Chemistry-9A –The Work of Chemist		Chemistry (408) Y11+12 to Chemistry (433) Y11+12
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip">http://www.filefactory.com/file/3z37l4qihde5/Yr_11_12_Chemistry_9A_DVD_zip</a>	
Video <a href="https://youtu.be/eepO1GLhtns">https://youtu.be/eepO1GLhtns</a>		
Yr 11+12 Chemistry 9A –The work of chemist		Chemistry (434) Y11+12 to Chemistry (444) Y11+12
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Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>	
Yr 11+12 Chemistry 9B –Atomic Absorption+ Spectrograph		Chemistry (445) Y11+12 to Chemistry (458) Y11+12
Link for power-points to view with computer	<a href="http://www.filefactory.com/file/qhvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip">http://www.filefactory.com/file/qhvxu27le4v/Yr_11_12_Chemistry_9B_PPT_zip</a>	
Link for JPEG+MP3 to view with portable DVD Player	<a href="http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip">http://www.filefactory.com/file/1fmdmk1brnav/Yr_11_12_Chemistry_9B_DVD_zip</a>	
Video <a href="https://youtu.be/z9efzQuNePg">https://youtu.be/z9efzQuNePg</a>		
Yr 11+12 Chemistry-10B –Heavy Metal Pollution of Water		Chemistry (507) Y11+12 to Chemistry (541) Y11+12
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Video <a href="https://youtu.be/lhJEjJpz11s">https://youtu.be/lhJEjJpz11s</a>		
Yr 11+12 Chemistry-6A –Natural & manufactured acid		
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Video <a href="https://youtu.be/Fz6PeH8yokI">https://youtu.be/Fz6PeH8yokI</a>		
Chemical Engineering-.pdf (2.43MB) <a href="http://www.filefactory.com/file/1kfkeqhr98ld/n/Chemical_Engineering-.pdf">http://www.filefactory.com/file/1kfkeqhr98ld/n/Chemical_Engineering-.pdf</a>		
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E.Ph-11011	Engineering Physics I	
	General Physics	

Yr 11+12 Physics 1-Gravity <b>Physics (001) Y11+12 to Physics (015) Y11+12</b>	
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Video <a href="https://youtu.be/lxXmAfYWayc">https://youtu.be/lxXmAfYWayc</a>	
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## CAD Drafting+ Computerized Electronic Circuit Development

EcE-11011

Fundamental of Electronic Circuits

### Electrical Circuits I

<a href="#">EE101</a>	<a href="#">DC Circuit Problems</a>
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E003+E004 / E104

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E003+E004 Lesson 6 Lamp and resistor circuit

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E003+E004 Lesson 7 Wheatstone bridge

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### Amplifier

<a href="#">EE115</a>	<a href="#">Basic Analogue &amp; Digital Electronics</a>
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H011 DC Power Supply

UEENEEH114A	Troubleshoot resonance circuits in an electronic apparatus
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UEENEEH111A	Troubleshoot single phase input d.c. power supplies

### DC Power supplies



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### H013

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## AC Machines

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G043+G045+ G143+145+I145

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**DC Machines**

<a href="#">EE207</a>	<a href="#">DC Machine</a>
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G044+G144+I146

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G044 Lesson 5 Losses & efficiency of DC machine

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**Power Electronics I**

<a href="#">EE109</a>	<a href="#">Electrical Control Circuits</a>
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<a href="#">EE208</a>	<a href="#">Operational Amplifiers</a>
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H025+ H & I units in UEE11

UEE1148A	Solve problems in single phase electronic power control circuits
UEE1149A	Solve problems in polyphase electronic power control circuits

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**[Operational amplifier+ single phase power control equipments](#)**

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H025 Lesson 1-Differential Amplifier

H025 Lesson 2-Comparator

H025 Lesson 3-Timer IC

H025 Lesson 4-Op Amp Circuit 1 & 2

H025 Lesson 5-Op amp characteristics+ Band width compensation

H025 Lesson 6-Op amp diode characteristics

H025 Lesson 7-Sine & square wave oscillators

H025 Lesson 8-Op amp ckt-Integrator+ Differentiator

H025 Lesson 9-Active filter

H025 Lesson 10-Multistage Op amp ckt

H025 Lesson 11-Transducers

H025 Lesson 12-Introduction to control

#### **Power Electronics II**

<a href="#">EE306</a>	<a href="#">Electro-mechanical Control</a>
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H026+ H & I units in UEE11

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#### **Three phase power control equipments**

[H026 Lesson 1-Single &Three phase power control.zip](#)



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**The links contain the following lessons**

H026 Lesson 1-Single & Three phase power control

H026 Lesson 2-Solid state switching devices

H026 Lesson 3-Inverter Converter

H026 Lesson 4-Power Diodes

H026 Lesson 5-AC Motor speed control

H026 Lesson 6-Current fed inverter

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BE (Electronics) Year 5

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### [G048 Lesson 6 Transient Circuit.zip](#)

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#### **The links contain the following lessons**

G048 Lesson 1 Mesh analysis+ Source conversion

G048 Lesson 2 Thevenin Theorem

G048 Lesson 3 Nodal Analysis

G048 Lesson 4 Superposition Theorem

G048 Lesson 5 AC Network Analysis

G048 Lesson 6 Transient Circuit



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	Amplifier	
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## H011 DC Power Supply

UEENEEH114A		Troubleshoot resonance circuits in an electronic apparatus
UEENEEH102A		Repairs basic electronic apparatus faults by replacement of components
UEENEEH111A		Troubleshoot single phase input d.c. power supplies

## DC Power supplies

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H011 Lesson 1 DC Power supply principle

H011 Lesson 2 Load regulation

H011 Lesson 3 Current limiter

## H013

## Amplifier

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H013 Lesson 1 Amplifier model

H013 Lesson 2 Amplifier biasing

H013 Lesson 3 Amplifier configuration

H013 Lesson 4 Amplifier parameters

H013 Lesson 5 JFET

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[http://youtu.be/OTsis\\_KIRuk](http://youtu.be/OTsis_KIRuk)

<http://youtu.be/8j1nD9nY2hU>

[http://www.filefactory.com/file/c0bbbc8/n/G015\\_AG\\_Lesson\\_2-Generator\\_load\\_sharing.zip](http://www.filefactory.com/file/c0bbbc8/n/G015_AG_Lesson_2-Generator_load_sharing.zip)

#### [G015\(AG\)Lesson 3-Power Flow.zip](#)

<http://youtu.be/0OzT4Pol-Jc>

[http://youtu.be/fK0wcaTY\\_rw](http://youtu.be/fK0wcaTY_rw)

[http://www.filefactory.com/file/c386bf4/n/G015\\_AG\\_Lesson\\_3-Power\\_Flow.zip](http://www.filefactory.com/file/c386bf4/n/G015_AG_Lesson_3-Power_Flow.zip)

#### [G015\(AG\)Lesson 4-IP based system.zip](#)

[http://youtu.be/ve5O8K9fl\\_7k](http://youtu.be/ve5O8K9fl_7k)

[http://www.filefactory.com/file/c386b23/n/G015\(AG\)Lesson\\_4-IP\\_based\\_system.zip](http://www.filefactory.com/file/c386b23/n/G015(AG)Lesson_4-IP_based_system.zip)

#### [G015\(AG\)Lesson 5-Surge in power system.zip](#)

<http://youtu.be/6WkezTcOzX4>

[http://www.filefactory.com/file/c0bbdce/n/G015\\_AG\\_Lesson\\_5-Surge\\_in\\_power\\_system.zip](http://www.filefactory.com/file/c0bbdce/n/G015_AG_Lesson_5-Surge_in_power_system.zip)

#### [G015\(AG\)Lesson 6-CTPT Harmonic filter.zip](#)

<http://youtu.be/Uy7q9SsaOYs>

[http://www.filefactory.com/file/c0bbdf6/n/G015\\_AG\\_Lesson\\_6-CTPT\\_Harmonic\\_filter.zip](http://www.filefactory.com/file/c0bbdf6/n/G015_AG_Lesson_6-CTPT_Harmonic_filter.zip)

#### [G015\(AG\)Lesson 7-Short circuit in alternator.zip](#)

<http://youtu.be/b-46Kvn8kJl>

[http://www.filefactory.com/file/c0bbd17/n/G015\\_AG\\_Lesson\\_7-Short\\_circuit\\_in\\_alternator.zip](http://www.filefactory.com/file/c0bbd17/n/G015_AG_Lesson_7-Short_circuit_in_alternator.zip)

#### [G015\(AG\)Lesson 8-Corona.zip](#)

<http://youtu.be/KYGRAWQqzsc>

[http://www.filefactory.com/file/c0bbea2/n/G015\\_AG\\_Lesson\\_8-Corona.zip](http://www.filefactory.com/file/c0bbea2/n/G015_AG_Lesson_8-Corona.zip)

#### [G015\(AG\)Lesson 9-Power surge.zip](#)

<http://youtu.be/uzFS-otIn-g>

[http://youtu.be/lSz\\_ccy630w](http://youtu.be/lSz_ccy630w)

[http://www.filefactory.com/file/c0bbe59/n/G015\\_AG\\_Lesson\\_9-Power\\_surge.zip](http://www.filefactory.com/file/c0bbe59/n/G015_AG_Lesson_9-Power_surge.zip)

#### [G015\(AG\)Lesson 10-Static Var Compensation.zip](#)

<http://youtu.be/y-of5oLajCU>

[http://www.filefactory.com/file/c0bbe89/n/G015\(AG\)Lesson\\_10-Static\\_Var\\_Compensation.zip](http://www.filefactory.com/file/c0bbe89/n/G015(AG)Lesson_10-Static_Var_Compensation.zip)

#### [G015\(AG\)Lesson 11-PF Control+Fuel cell.zip](#)

<http://youtu.be/AXbCcoQeLns>

[http://www.filefactory.com/file/c0bbf35/n/G015\\_AG\\_Lesson\\_11-PF\\_Control\\_Fuel\\_cell.zip](http://www.filefactory.com/file/c0bbf35/n/G015_AG_Lesson_11-PF_Control_Fuel_cell.zip)

#### [G015\(AG\)Lesson 12-Exercises.zip](#)

<http://youtu.be/nRGScOH9aSM>

[http://www.filefactory.com/file/c0bbf6f/n/G015\(AG\)Lesson\\_12-Exercises.zip](http://www.filefactory.com/file/c0bbf6f/n/G015(AG)Lesson_12-Exercises.zip)

#### **The links contain the following lessons**

G015(AA)Lesson 1-Distribution system

G015(AA)Lesson 2-Demand factor

G015(AA)Lesson 3-Sag

G015(AA)Lesson 4-OH Line mechanical design

G015(AA)Lesson 5-UG Cable

G015(AA)Lesson 6-Voltage control

G015(AE)Lesson 1-Power system protection scheme

G015(AE)Lesson 2-Differential relay

G015(AE)Lesson 3-Over current & earth fault protection

G015(AE)Lesson 4-Three phase differential relay

G015(AE)Lesson 5-Current time grading

G015(AE)Lesson 6-Instrumentation transformer

G015(AE)Lesson 7-CT PT

G015(AE)Lesson 8-Distance relay

G015(AE)Lesson 9-Telecom in power protection

G015(AG)Lesson 1-Stability

G015(AG)Lesson 2-Generator load sharing

G015(AG)Lesson 3-Power Flow

G015(AG)Lesson 4-IP based system

G015(AG)Lesson 5-Surge in power system

G015(AG)Lesson 6-CTPT Harmonic filter

G015(AG)Lesson 7-Short circuit in alternator

G015(AG)Lesson 8-Corona

G015(AG)Lesson 9-Power surge

G015(AG)Lesson 10-Static Var Compensation

G015(AG)Lesson 11-PF Control+Fuel cell

#### **Electrical Power Systems II**

**EE118**

**[Electrical Energy Supply System](#)**

G037+G038+G039 Part 1/2/3+IS69

## **Power System (2)**

### **G037+G038+G039 Lesson 1-Power Flow.zip**

<http://youtu.be/mzwGGXRTvw>

[http://www.filefactory.com/file/c0bb2a3/n/G037\\_G038\\_G039\\_Lesson\\_1-Power\\_Flow.zip](http://www.filefactory.com/file/c0bb2a3/n/G037_G038_G039_Lesson_1-Power_Flow.zip)

### **G037+G038+G039 Lesson 2-Site Earthing.zip**

<http://youtu.be/PATkXVBF9kc>

<http://youtu.be/H4Dj1K238BE>

[http://www.filefactory.com/file/c0bb244/n/G037\\_G038\\_G039\\_Lesson\\_2-Site\\_Earthing.zip](http://www.filefactory.com/file/c0bb244/n/G037_G038_G039_Lesson_2-Site_Earthing.zip)

### **G037+G038+G039 Lesson 3-Power System Control Equipments.zip**

<http://youtu.be/JJczbYVW0oI>

[http://www.filefactory.com/file/c0bcded7/n/G037\\_G038\\_G039\\_Lesson\\_3-Power\\_System\\_Control\\_Equipments.zip](http://www.filefactory.com/file/c0bcded7/n/G037_G038_G039_Lesson_3-Power_System_Control_Equipments.zip)

### **G037+G038+G039 Lesson 4-Auxiliary System+Harmonic.zip**

<http://youtu.be/5mDNHGFLA0c>

[http://www.filefactory.com/file/c0bb3c3/n/G037\\_G038\\_G039\\_Lesson\\_4-Auxiliary\\_System\\_Harmonic.zip](http://www.filefactory.com/file/c0bb3c3/n/G037_G038_G039_Lesson_4-Auxiliary_System_Harmonic.zip)

### **G037+G038+G039 Lesson 5-Harmonic.zip**

<http://youtu.be/n41q4Rmz2p0>

<http://youtu.be/8CelGV5AEIk>

[http://www.filefactory.com/file/c386dbc/n/G037+G038+G039\\_Lesson\\_5-Harmonic.zip](http://www.filefactory.com/file/c386dbc/n/G037+G038+G039_Lesson_5-Harmonic.zip)

### **G037+G038+G039 Lesson 6-Harmonic Calculation.zip**

<http://youtu.be/NHSzu6HkOqI>

<http://youtu.be/fSLrPIC6Mho>

[http://www.filefactory.com/file/c39bd4a/n/G037\\_G038\\_G039\\_Lesson\\_6-Harmonic\\_Calculation.zip](http://www.filefactory.com/file/c39bd4a/n/G037_G038_G039_Lesson_6-Harmonic_Calculation.zip)

### **G037+G038+G039 Lesson 7-Synchronous Generator Loading.zip**

<http://youtu.be/jv1q7Mtq7Gs>

[http://www.filefactory.com/file/c39be2f/n/G037\\_G038\\_G039\\_Lesson\\_7-Synchronous\\_Generator\\_Loading.zip](http://www.filefactory.com/file/c39be2f/n/G037_G038_G039_Lesson_7-Synchronous_Generator_Loading.zip)

### **G037+G038+G039 Lesson 8-Turbine Control+Power Line Earthing.zip**

<http://youtu.be/0CvgkmDE3Kw>

[http://www.filefactory.com/file/c0bb521/n/G037\\_G038\\_G039\\_Lesson\\_8-Turbine\\_Control\\_Power\\_Line\\_Earthing.zip](http://www.filefactory.com/file/c0bb521/n/G037_G038_G039_Lesson_8-Turbine_Control_Power_Line_Earthing.zip)

### **G037+G038+G039 Lesson 9-Insulator.zip**

<http://youtu.be/4jqs8MLBFA>

<http://youtu.be/TiQezIA9Z-c>

[http://www.filefactory.com/file/c221eff/n/G037\\_G038\\_G039\\_Lesson\\_9-Insulator.zip](http://www.filefactory.com/file/c221eff/n/G037_G038_G039_Lesson_9-Insulator.zip)

### **G037+G038+G039 Lesson 10-Reliability of Power System.zip**

<http://youtu.be/tlUk3nc1IxE>

[http://www.filefactory.com/file/c0bb6e4/n/G037\\_G038\\_G039\\_Lesson\\_10-Reliability\\_of\\_Power\\_System.zip](http://www.filefactory.com/file/c0bb6e4/n/G037_G038_G039_Lesson_10-Reliability_of_Power_System.zip)

### **G037+G038+G039 Lesson 11-Harmonic Reduction.zip**

<http://youtu.be/8dYX-11kRcc>

<http://youtu.be/A684Agej8-w>

[http://www.filefactory.com/file/c0bce89/n/G037\\_G038\\_G039\\_Lesson\\_11-Harmonic\\_Reduction.zip](http://www.filefactory.com/file/c0bce89/n/G037_G038_G039_Lesson_11-Harmonic_Reduction.zip)

### **G037+G038+G039 Lesson 12-Grounding + Power Quality.zip**

<http://youtu.be/QQPJi3WXJnA>

[http://www.filefactory.com/file/c0bb872/n/G037\\_G038\\_G039\\_Lesson\\_12-Grounding\\_Power\\_Quality.zip](http://www.filefactory.com/file/c0bb872/n/G037_G038_G039_Lesson_12-Grounding_Power_Quality.zip)

### **G037+G038+G039 Lesson 13-Power Quality.zip**

[http://youtu.be/fel7SCb\\_QTY](http://youtu.be/fel7SCb_QTY)

<http://youtu.be/mcK2YhDsnr0>

[http://www.filefactory.com/file/c0bb98d/n/G037\\_G038\\_G039\\_Lesson\\_13-Power\\_Quality.zip](http://www.filefactory.com/file/c0bb98d/n/G037_G038_G039_Lesson_13-Power_Quality.zip)

### **G037+G038+G039 Lesson 14-Harmonic Model.zip**

<http://youtu.be/dwWBQg-BsLY>

[http://www.filefactory.com/file/c0bcdad7/n/G037\\_G038\\_G039\\_Lesson\\_14-Harmonic\\_Model.zip](http://www.filefactory.com/file/c0bcdad7/n/G037_G038_G039_Lesson_14-Harmonic_Model.zip)

### **G037+G038+G039 Lesson 15-Harmonic Losses in Transformer.zip**

<http://youtu.be/mwEJgEEgPVc>

<http://youtu.be/1A6FY5f5iIM>

<http://youtu.be/yLiOKy7uJj0>

[http://www.filefactory.com/file/c39b12f/n/G037\\_G038\\_G039\\_Lesson\\_15-Harmonic\\_Losses\\_in\\_Transformer.zip](http://www.filefactory.com/file/c39b12f/n/G037_G038_G039_Lesson_15-Harmonic_Losses_in_Transformer.zip)

### **G037+G038+G039 Lesson 16-Reliability Improvement.zip**

<http://youtu.be/cn-CfDWnUN8>

[http://www.filefactory.com/file/c39ca44/n/G037\\_G038\\_G039\\_Lesson\\_16-Reliability\\_Improvement.zip](http://www.filefactory.com/file/c39ca44/n/G037_G038_G039_Lesson_16-Reliability_Improvement.zip)

[G037+G038+G039 Lesson 17-Preparation for emergency.zip](#)

<http://youtu.be/La7Xip8GI2I>

[http://www.filefactory.com/file/c0bcd7/n/G037\\_G038\\_G039\\_Lesson\\_17-Preparation\\_for\\_emergency.zip](http://www.filefactory.com/file/c0bcd7/n/G037_G038_G039_Lesson_17-Preparation_for_emergency.zip)

[G037+G038+G039 Lesson 18-Harmonic problems.zip](#)

[http://youtu.be/0Umkee\\_](http://youtu.be/0Umkee_)

[http://youtu.be/zM\\_Xcwkcicw](http://youtu.be/zM_Xcwkcicw)

[http://www.filefactory.com/file/c0bcb68/n/G037\\_G038\\_G039\\_Lesson\\_18-Harmonic\\_problems.zip](http://www.filefactory.com/file/c0bcb68/n/G037_G038_G039_Lesson_18-Harmonic_problems.zip)

[G037+G038+G039 Lesson 19-Synchronous machine problems.zip](#)

<http://youtu.be/Lx2S-NATr2Q>

[http://www.filefactory.com/file/c0bccb8/n/G037\\_G038\\_G039\\_Lesson\\_19-Synchronous\\_machine\\_problems.zip](http://www.filefactory.com/file/c0bccb8/n/G037_G038_G039_Lesson_19-Synchronous_machine_problems.zip)

[G037+G038+G039 Lesson 20-Power Generation + Generator Control.zip](#)

<http://youtu.be/56Ks8sArQxc>

[http://www.filefactory.com/file/c0bcc20/n/G037\\_G038\\_G039\\_Lesson\\_20Power\\_Generation\\_Generator\\_Control.zip](http://www.filefactory.com/file/c0bcc20/n/G037_G038_G039_Lesson_20Power_Generation_Generator_Control.zip)

[G037+G038+G039 Lesson 21-Turbine Control+ Digital Excitation.zip](#)

<http://youtu.be/uCsvv18qKwQ>

<http://youtu.be/l4vCDI2CZS0>

[http://www.filefactory.com/file/c0bcd6/n/G037\\_G038\\_G039\\_Lesson\\_21-Turbine\\_Control\\_Digital\\_Excitation.zip](http://www.filefactory.com/file/c0bcd6/n/G037_G038_G039_Lesson_21-Turbine_Control_Digital_Excitation.zip)

[G037+G038+G039 Lesson 22-Power System Protection.zip](#)

<http://youtu.be/c6iXRwICYBU>

[http://www.filefactory.com/file/c0bcd4c/n/G037\\_G038\\_G039\\_Lesson\\_22-Power\\_System\\_Protection.zip](http://www.filefactory.com/file/c0bcd4c/n/G037_G038_G039_Lesson_22-Power_System_Protection.zip)

[G037+G038+G039 Lesson 23-Switch Gear.zip](#)

<http://youtu.be/DDpbzgNYTiM>

<http://youtu.be/2cl-nOdBNro>

[http://www.filefactory.com/file/c0bcea8/n/G037\\_G038\\_G039\\_Lesson\\_23-Switch\\_Gear.zip](http://www.filefactory.com/file/c0bcea8/n/G037_G038_G039_Lesson_23-Switch_Gear.zip)

#### The links contain the following lessons

G037+G038+G039 Lesson 1-Power Flow

G037+G038+G039 Lesson 2-Site Earthing

G037+G038+G039 Lesson 3-Power System Control Equipments

G037+G038+G039 Lesson 4-Auxiliary System+ Harmonic

G037+G038+G039 Lesson 5-Harmonic

G037+G038+G039 Lesson 6-Harmonic Calculation

G037+G038+G039 Lesson 7-Synchronous Generator Loading

G037+G038+G039 Lesson 8-Turbine Control+ Power Line Earthing

G037+G038+G039 Lesson 9-Insulator

G037+G038+G039 Lesson 10-Reliability of Power System

G037+G038+G039 Lesson 11-Harmonic Reduction

G037+G038+G039 Lesson 12-Grounding + Power Quality

G037+G038+G039 Lesson 13-Power Quality

G037+G038+G039 Lesson 14-Harmonic Model

G037+G038+G039 Lesson 15-Harmonic Losses in Transformer

G037+G038+G039 Lesson 16-Reliability Improvement

G037+G038+G039 Lesson 17-Preparation for emergency

G037+G038+G039 Lesson 18-Harmonic problems

G037+G038+G039 Lesson 19-Synchronous machine problems

G037+G038+G039 Lesson 20-Power Generation + Generator Control

G037+G038+G039 Lesson 21-Turbine Control+ Digital Excitation

G037+G038+G039 Lesson 22-Power System Protection

G037+G038+G039 Lesson 23-Switch Gear

#### Transmission Lines

<a href="#">EE303</a>	<a href="#">Transmission Line</a>
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G042+IS71

Page 285 to 307 of [http://www.filefactory.com/file/cf9bf8f/n/Video\\_Lessons.pdf](http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf)

[www.highlightcomputer.com/Video\\_Lessons.pdf](http://www.highlightcomputer.com/Video_Lessons.pdf)

#### Transmission Line

[G042 Lesson 1-Transmission line introduction.zip](#)

<http://youtu.be/DrOOgcKeaL4>

[http://www.filefactory.com/file/c0bf370/n/G042\\_Lesson\\_1-Transmission\\_line\\_introduction.zip](http://www.filefactory.com/file/c0bf370/n/G042_Lesson_1-Transmission_line_introduction.zip)

[G042 Lesson 2-DC Line+Line reflection.zip](#)

<http://youtu.be/ivVdecp-clk>

[http://www.filefactory.com/file/c0bf4eb/n/G042\\_Lesson\\_2-DC\\_Line\\_Line\\_reflection.zip](http://www.filefactory.com/file/c0bf4eb/n/G042_Lesson_2-DC_Line_Line_reflection.zip)

[G042 Lesson 3-Power line calculation.zip](#)

<http://youtu.be/3TgVt67DhvY>

<http://youtu.be/QT6aqsam7a0>

<http://youtu.be/WxiQlkdJiQ8>

[http://www.filefactory.com/file/c0bf433/n/G042\\_Lesson\\_3-Power\\_line\\_calculation.zip](http://www.filefactory.com/file/c0bf433/n/G042_Lesson_3-Power_line_calculation.zip)

[G042 Lesson 4-Line model+Economic aspect.zip](#)

[http://youtu.be/1HRdGZxp\\_-w](http://youtu.be/1HRdGZxp_-w)

[http://www.filefactory.com/file/c0bf459/n/G042\\_Lesson\\_4-Line\\_model\\_Economic\\_aspect.zip](http://www.filefactory.com/file/c0bf459/n/G042_Lesson_4-Line_model_Economic_aspect.zip)

#### [G042 Lesson 5-Time value of money+Line reflection.zip](#)

<http://youtu.be/n9mupLQWANY>

<http://youtu.be/YdfiX2gL-3c>

[http://www.filefactory.com/file/c0bf5a9/n/G042\\_Lesson\\_5-Time\\_value\\_of\\_money\\_Line\\_reflection.zip](http://www.filefactory.com/file/c0bf5a9/n/G042_Lesson_5-Time_value_of_money_Line_reflection.zip)

#### [G042 Lesson 6-Line matching+Wave guide.zip](#)

[http://youtu.be/1WvP5\\_Cek40](http://youtu.be/1WvP5_Cek40)

[http://www.filefactory.com/file/c0bf5dd/n/G042\\_Lesson\\_6-Line\\_matching\\_Wave\\_guide.zip](http://www.filefactory.com/file/c0bf5dd/n/G042_Lesson_6-Line_matching_Wave_guide.zip)

#### [G042 Lesson 7-Wave guide.zip](#)

<http://youtu.be/BuGtjZ3QBXk>

<http://youtu.be/pftevsnbI0w>

[http://www.filefactory.com/file/c0bf519/n/G042\\_Lesson\\_7-Wave\\_guide.zip](http://www.filefactory.com/file/c0bf519/n/G042_Lesson_7-Wave_guide.zip)

#### [G042 Lesson 8-Microstrip line.zip](#)

<http://youtu.be/elNq1kKuiec>

[http://www.filefactory.com/file/c0bf545/n/G042\\_Lesson\\_8-Microstrip\\_line.zip](http://www.filefactory.com/file/c0bf545/n/G042_Lesson_8-Microstrip_line.zip)

#### [G042 Lesson 9-Per unit value of line.zip](#)

<http://youtu.be/66Y-Lm3EntI>

[http://www.filefactory.com/file/c0bf576/n/G042\\_Lesson\\_9-Per\\_unit\\_value\\_of\\_line.zip](http://www.filefactory.com/file/c0bf576/n/G042_Lesson_9-Per_unit_value_of_line.zip)

#### [G042 Lesson 10-Line constants.zip](#)

<http://youtu.be/2XYnZZ-zXII>

[http://www.filefactory.com/file/c3eb4d1/n/G042\\_Lesson\\_10-Line\\_constants.zip](http://www.filefactory.com/file/c3eb4d1/n/G042_Lesson_10-Line_constants.zip)

#### [G042 Lesson 11-Smith chart.zip](#)

<http://youtu.be/dv-NQh4vIrg>

<http://youtu.be/KfM8XZd9Wqc>

<http://youtu.be/3NYVQvW8-Nk>

<http://youtu.be/5qBwLsbtfTA>

[http://youtu.be/ViamcvqAy\\_I](http://youtu.be/ViamcvqAy_I)

[http://youtu.be/j\\_nx9n7mGec](http://youtu.be/j_nx9n7mGec)

<http://youtu.be/d53B3-zV2ec>

[http://www.filefactory.com/file/c0bf6ef/n/G042\\_Lesson\\_11-Smith\\_chart.zip](http://www.filefactory.com/file/c0bf6ef/n/G042_Lesson_11-Smith_chart.zip)

#### [G042 Lesson 12-Four terminals network.zip](#)

<http://youtu.be/HCO4P1qrPbA>

[http://www.filefactory.com/file/c0bf60b/n/G042\\_Lesson\\_12-Four\\_terminals\\_network.zip](http://www.filefactory.com/file/c0bf60b/n/G042_Lesson_12-Four_terminals_network.zip)

#### [G042 Lesson 13-Exercises.zip](#)

<http://youtu.be/LevJf1PhpCY>

[http://www.filefactory.com/file/c0bf61c/n/G042\\_Lesson\\_13-Exercises.zip](http://www.filefactory.com/file/c0bf61c/n/G042_Lesson_13-Exercises.zip)

#### **The links contain the following lessons**

G042 Lesson 1-Transmission line introduction

G042 Lesson 2-DC Line+Line reflection

G042 Lesson 3-Power line calculation

G042 Lesson 4-Line model+Economic aspect

G042 Lesson 5-Time value of money+Line reflection

G042 Lesson 6-Line matching+Wave guide

G042 Lesson 7-Wave guide

G042 Lesson 8-Microstrip line

G042 Lesson 9-Per unit value of line

G042 Lesson 10-Line constants



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EP  
31021

Electrical Machine and Operation I

EP 31021+32021-Electrical Machine and Operation 1& 2=EP-41043+42043-Electrical Machines 1 & 2 of EC

### Day 17 Part 1

#### RE013-Electrical Machines (Electrical)

BAE 407 Advanced Electro-magnetics Field & Materials

BAE 507 Electro-mechanical Energy Conversion

[www.highlightcomputer.com/Day\\_17Part\\_1-RE013-Electrical\\_Machines\\_Electrical.zip](http://www.highlightcomputer.com/Day_17Part_1-RE013-Electrical_Machines_Electrical.zip)

### Day 17 Part 1

#### RE013 Electrical Machines

DC Generator Page 45,46,47,48,53,55,56,57,58,59,60,67,74

Transformer Page 101,102,103,106,109,110,111,115,116,132,133

Three Phase induction motor Page 141,142,143,144,145,146,147,148,149,150,160,166,167,168,171,172,173,174,175

Synchronous Generator /Motor Page 178,179,180,181,182,183,184,185,186,188,189,194,195,196,197,198,199

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Electric motor control Page 230,232,233,234,236,237,239,247,248,249,250,251,253,254,256,257,258,262,263

#### AC Machines

[EE206](#) [AC Machines](#)

G043+G045+ G143+145+I145

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#### Induction and synchronous machines & control

[G043+G045 Lesson 1 AC Machine Introduction.zip](#)

<http://youtu.be/-WfOPhNDn8>

[http://www.filefactory.com/file/c0bf660/n/G043\\_G045\\_Lesson\\_1\\_AC\\_Machine\\_Introduction.zip](http://www.filefactory.com/file/c0bf660/n/G043_G045_Lesson_1_AC_Machine_Introduction.zip)

[G043+G045 Lesson 2 Slip+Equivalent Ckt.zip](#)

<http://youtu.be/De79chk2EOQ>

<http://youtu.be/gprZTitiOao>

[http://www.filefactory.com/file/c0bf7b9/n/G043\\_G045\\_Lesson\\_2\\_Slip\\_Equivalent\\_Ckt.zip](http://www.filefactory.com/file/c0bf7b9/n/G043_G045_Lesson_2_Slip_Equivalent_Ckt.zip)

### [G043+G045 Lesson 3 Power Transfer.zip](#)

<http://youtu.be/pCMcMPBrUEE>

<http://youtu.be/7LjJDuG5SQc>

<http://youtu.be/dv9VFsXeFnY>

[http://www.filefactory.com/file/c0bf773/n/G043\\_G045\\_Lesson\\_3\\_Power\\_Transfer.zip](http://www.filefactory.com/file/c0bf773/n/G043_G045_Lesson_3_Power_Transfer.zip)

### [G043+G045 Lesson 4 Test for equivalent ckt.zip](#)

<http://youtu.be/HF4bJ6vWX2c>

[http://www.filefactory.com/file/c0b03f9/n/G043\\_G045\\_Lesson\\_4\\_Test\\_for\\_equivalent\\_ckt.zip](http://www.filefactory.com/file/c0b03f9/n/G043_G045_Lesson_4_Test_for_equivalent_ckt.zip)

### [G043+G045 Lesson 5 Equivalent Ckt Problems.zip](#)

[http://youtu.be/PyPQsw0L\\_o0](http://youtu.be/PyPQsw0L_o0)

[http://youtu.be/f8VbD\\_APNfk](http://youtu.be/f8VbD_APNfk)

<http://youtu.be/SROL C5hkoc0>

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### [G043+G045 Lesson 6 Motor starting and control.zip](#)

<http://youtu.be/Ulfbzs7Ti6M>

<http://youtu.be/VnNlesPgeZk>

<http://youtu.be/AMO70oGS2Fs>

<http://youtu.be/FQVMCMDSTwo>

[http://www.filefactory.com/file/c0bf90e/n/G043\\_G045\\_Lesson\\_6\\_Motor\\_starting\\_and\\_control.zip](http://www.filefactory.com/file/c0bf90e/n/G043_G045_Lesson_6_Motor_starting_and_control.zip)

### [G043+G045 Lesson 7 Synchronous machine introduction.zip](#)

<http://youtu.be/KM9TJcr2MBk>

[http://www.filefactory.com/file/c0bf92d/n/G043\\_G045\\_Lesson\\_7\\_Synchronous\\_machine\\_introduction.zip](http://www.filefactory.com/file/c0bf92d/n/G043_G045_Lesson_7_Synchronous_machine_introduction.zip)

### [G043+G045 Lesson 8 Synchronous machine ckt problems.zip](#)

<http://youtu.be/ZGsmZfLiPoc>

<http://youtu.be/bnpYxKiSz1c>

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### [G043+G045 Lesson 9 Synchronous machine starting.zip](#)

<http://youtu.be/p4x03LkqBc8>

<http://youtu.be/yKmnNWaxT2Hk>

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### [G043+G045 Lesson 10 Single phase motor.zip](#)

<http://youtu.be/9OgmEb0IFpE>

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### [G043+G045 Lesson 11 Factors affecting motor operation.zip](#)

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G043+G045 Lesson 1 AC Machine Introduction

G043+G045 Lesson 2 Slip+Equivalent Ckt

G043+G045 Lesson 3 Power Transfer

G043+G045 Lesson 4 Test for equivalent ckt



G043+G045 Lesson 5 Equivalent Ckt Problems  
G043+G045 Lesson 6 Motor starting and control  
G043+G045 Lesson 7 Synchronous machine introduction  
G043+G045 Lesson 8 Synchronous machine ckt problems  
G043+G045 Lesson 9 Synchronous machine starting  
G043+G045 Lesson 10 Single phase motor  
G043+G045 Lesson 11 Factors affecting motor operation

## DC Machines

<a href="#">EE207</a>	<a href="#">DC Machine</a>
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G044+G144+I146

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[www.highlightcomputer.com/Video\\_Lessons.pdf](http://www.highlightcomputer.com/Video_Lessons.pdf)

### DC Machine and control

[G044 Lesson 1 DC Machine Principle.zip](#)

[http://youtu.be/-jAtAH\\_Ny94](http://youtu.be/-jAtAH_Ny94)

[http://www.filefactory.com/file/c0b04b3/n/G044\\_Lesson\\_1\\_DC\\_Machine\\_Principle.zip](http://www.filefactory.com/file/c0b04b3/n/G044_Lesson_1_DC_Machine_Principle.zip)

[G044 Lesson 2 DC Winding +Armature reaction.zip](#)

<http://youtu.be/SYx2SSmMKIE>

<http://youtu.be/YtTPpipiUYI>

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[G044 Lesson 3 Factors affecting speed & direction of rotation.zip](#)

<http://youtu.be/9-7wsKVrhls>

[http://youtu.be/O\\_uo2H5Rflc](http://youtu.be/O_uo2H5Rflc)

<http://youtu.be/QaabA5pmB9E>

[http://www.filefactory.com/file/c0b0438/n/G044\\_Lesson\\_3\\_Factors\\_affecting\\_speed\\_direction\\_of\\_rotation.zip](http://www.filefactory.com/file/c0b0438/n/G044_Lesson_3_Factors_affecting_speed_direction_of_rotation.zip)

[G044 Lesson 4 Torque speed relation.zip](#)

<http://youtu.be/NsBiqxreBOA>

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[G044 Lesson 5 Losses & efficiency of DC machine.zip](#)

<http://youtu.be/2sHkCIBWfW>

<http://youtu.be/hZAJL3oUxMM>

[http://www.filefactory.com/file/c0b05f4/n/G044\\_Lesson\\_5\\_Losses\\_efficiency\\_of\\_DC\\_machine.zip](http://www.filefactory.com/file/c0b05f4/n/G044_Lesson_5_Losses_efficiency_of_DC_machine.zip)

[G044 Lesson 6 Machine temperature rise.zip](#)

<http://youtu.be/h8PNG21p-p4>

[http://youtu.be/Cq0V4DR\\_2wE](http://youtu.be/Cq0V4DR_2wE)

[http://www.filefactory.com/file/c0b0548/n/G044\\_Lesson\\_6\\_Machine\\_temperature\\_rise.zip](http://www.filefactory.com/file/c0b0548/n/G044_Lesson_6_Machine_temperature_rise.zip)

[G044 Lesson 7 DC motor control.zip](#)

<http://youtu.be/XUidfx-qtF0>

[http://www.filefactory.com/file/c0b056f/n/G044\\_Lesson\\_7\\_DC\\_motor\\_control.zip](http://www.filefactory.com/file/c0b056f/n/G044_Lesson_7_DC_motor_control.zip)

[G044 Lesson 8 Duty cycle+DC motor starter.zip](#)

<http://youtu.be/bhQF-hurKMI>

[http://www.filefactory.com/file/c0b0588/n/G044\\_Lesson\\_8\\_Duty\\_cycle\\_DC\\_motor\\_starter.zip](http://www.filefactory.com/file/c0b0588/n/G044_Lesson_8_Duty_cycle_DC_motor_starter.zip)

[G044 Lesson 9 DC motor speed control.zip](#)

<http://youtu.be/kRfoWS3ujdE>

[http://youtu.be/R\\_0LDkQEAHU](http://youtu.be/R_0LDkQEAHU)

[http://www.filefactory.com/file/c0b06b9/n/G044\\_Lesson\\_9\\_DC\\_motor\\_speed\\_control.zip](http://www.filefactory.com/file/c0b06b9/n/G044_Lesson_9_DC_motor_speed_control.zip)

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G044 Lesson 1 DC Machine Principle  
G044 Lesson 2 DC Winding +Armature reaction  
G044 Lesson 3 Factors affecting speed & direction of rotation  
G044 Lesson 4 Torque speed relation  
G044 Lesson 5 Losses & efficiency of DC machine  
G044 Lesson 6 Machine temperature rise  
G044 Lesson 7 DC motor control  
G044 Lesson 8 Duty cycle+DC motor starter  
G044 Lesson 9 DC motor speed control

**Power Transformers**

<a href="#">EE305</a>	<a href="#">Power Transformer</a>
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G040 + IS73

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**Power transformer**

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[http://youtu.be/qiWJVQAh\\_jA](http://youtu.be/qiWJVQAh_jA)

[G040 Lesson 1 Power transformer rating 2.zip](#)

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[G040 Lesson 3 Transformer regulation.zip](#)

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[G040 Lesson 4 Power transformer connection.zip](#)

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[http://www.filefactory.com/file/c0bc09a/n/G040\\_Lesson\\_4\\_Power\\_transformer\\_connection.zip](http://www.filefactory.com/file/c0bc09a/n/G040_Lesson_4_Power_transformer_connection.zip)

[G040 Lesson 5 Maximum efficiency.zip](#)

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[G040 Lesson 6 Transformer parallel operation.zip](#)

<http://youtu.be/dkRxoaozrOk>

<http://youtu.be/Sz5QY727w-8>

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[G040 Lesson 7 Harmonic in transformer.zip](#)

<http://youtu.be/YOIWb3e574>

[http://www.filefactory.com/file/c39b5b9/n/G040\\_Lesson\\_7\\_Harmonic\\_in\\_transformer.zip](http://www.filefactory.com/file/c39b5b9/n/G040_Lesson_7_Harmonic_in_transformer.zip)

[G040 Lesson 8 Transformer problem + auto transformer.zip](#)

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[http://www.filefactory.com/file/c0bc2cb/n/G040\\_Lesson\\_8\\_Transformer\\_problem\\_auto\\_transformer.zip](http://www.filefactory.com/file/c0bc2cb/n/G040_Lesson_8_Transformer_problem_auto_transformer.zip)

[G040 Lesson 9 Transformer rating cooling connection tap changing.zip](#)

<http://youtu.be/d3XHm-wguzQ>  
<http://youtu.be/XwilkZnKFqQ>  
<http://youtu.be/uOHBk840Bhw>  
[http://www.filefactory.com/file/c0bc294/n/G040\\_Lesson\\_9\\_Transformer\\_rating\\_cooling\\_connection\\_tap\\_changing.zip](http://www.filefactory.com/file/c0bc294/n/G040_Lesson_9_Transformer_rating_cooling_connection_tap_changing.zip)

[G040 Lesson 10 Phase shift transformer.zip](#)

<http://youtu.be/7aWhg9DloWl>  
[http://www.filefactory.com/file/c39b51c/n/G040\\_Lesson\\_10\\_Phase\\_shift\\_transformer.zip](http://www.filefactory.com/file/c39b51c/n/G040_Lesson_10_Phase_shift_transformer.zip)

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G040 Lesson 1 Power transformer rating 1  
G040 Lesson 1 Power transformer rating 2  
G040 Lesson 2 Open circuit short circuit test  
G040 Lesson 3 Transformer regulation  
G040 Lesson 4 Power transformer connection  
G040 Lesson 5 Maximum efficiency  
G040 Lesson 6 Transformer parallel operation  
G040 Lesson 7 Harmonic in transformer  
G040 Lesson 8 Transformer problem + auto transformer  
G040 Lesson 9 Transformer rating cooling connection tap changing  
G040 Lesson 10 Phase shift transformer

**Electrical Machines**

[AC Machines 1](#)

[AC Machines 2](#)

[DC Machines](#)

[Power Transformer -G040.zip](#)

[Power Transformer](#)

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G044 Tutorial.doc (4.05MB)

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G043+G045 Part 1+7762AF Notes.doc (11.36MB)

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G044+7762AC1.zip (5.86MB)

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EP  
31033

Electromagnetic Field I

EP 31033+32033-Electromagnetic Field 1 & 2=EcE-31011+32011-Engineering Electro-magnetics 1 & 2

**BAE 407 Advanced Electro-magnetism**

Day 27 Part 1

[BAE 4071](#)

[BAE 4072](#)

[BAE 4073](#)

**Day27 Part 1**

**BAE 407 Advanced Electromagnetics**

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Lecture 1-all

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**Day 17 Part 1**

**RE013-Electrical Machines (Electrical)**

BAE 407 Advanced Electro-magnetics Field & Materials

BAE 507 Electro-mechanical Energy Conversion

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**Day 17 Part 1**

**RE013 Electrical Machines**

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Electric motor control Page 230,232,233,234,236,237,239,247,248,249,250,251,253,254,256,257,258,262,263

EP 31025	<p>EE 407 electromagnetism-for-electronic-engineers-examples.pdf (3.75MB)  <a href="http://www.filefactory.com/file/1lfqqg7zw6h9/n/EE_407_electromagnetism-for-electronic-engineers-examples.pdf">http://www.filefactory.com/file/1lfqqg7zw6h9/n/EE_407_electromagnetism-for-electronic-engineers-examples.pdf</a></p> <p>Fundamentals of Electromagnetics for Electrical and Computer Engineering-.pdf (4.34MB)  <a href="http://www.filefactory.com/file/2v4bhi4qpmxn/n/Fundamentals_of_Electromagnetics_for_Electrical_and_Computer_Engineering-.pdf">http://www.filefactory.com/file/2v4bhi4qpmxn/n/Fundamentals_of_Electromagnetics_for_Electrical_and_Computer_Engineering-.pdf</a></p> <p>BAE 407 Advanced Electro-magnetics Field &amp; Materials.zip (67.2MB)  <a href="http://www.filefactory.com/file/43o030m5jahj/n/BAE_407_Advanced_Electro-magnetics_Field_&amp;_Materials.zip">http://www.filefactory.com/file/43o030m5jahj/n/BAE_407_Advanced_Electro-magnetics_Field_&amp;_Materials.zip</a></p> <p>EE 407 electromagnetism-for-electronic-engineers.pdf (3.76MB)  <a href="http://www.filefactory.com/file/4o4dn80feap1/n/EE_407_electromagnetism-for-electronic-engineers.pdf">http://www.filefactory.com/file/4o4dn80feap1/n/EE_407_electromagnetism-for-electronic-engineers.pdf</a></p> <p>Fundamentals of Applied Electromagnetics.pdf (34.5MB)  <a href="http://www.filefactory.com/file/n6zlyr1jms5/n/Fundamentals_of_Applied_Electromagnetics.pdf">http://www.filefactory.com/file/n6zlyr1jms5/n/Fundamentals_of_Applied_Electromagnetics.pdf</a></p>
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BE (Electrical Power) Year 4

E 41011	English
EM 41007	Discrete Mathematics I
	<p>Maths 501 linear-algebra-c-2.pdf (2.97MB)  <a href="http://www.filefactory.com/file/1cc8pql5lpv9/n/Maths_501_linear-algebra-c-2.pdf">http://www.filefactory.com/file/1cc8pql5lpv9/n/Maths_501_linear-algebra-c-2.pdf</a></p> <p>Maths 501 linear-algebra-i-matrices-and-row-operations.pdf (4.45MB)  <a href="http://www.filefactory.com/file/1nvcwncrwu99/n/Maths_501_linear-algebra-i-matrices-and-row-operations.pdf">http://www.filefactory.com/file/1nvcwncrwu99/n/Maths_501_linear-algebra-i-matrices-and-row-operations.pdf</a></p> <p>Maths 402 discrete-distributions.pdf (2.68MB)  <a href="http://www.filefactory.com/file/39j30yolnhhb/n/Maths_402_discrete-distributions.pdf">http://www.filefactory.com/file/39j30yolnhhb/n/Maths_402_discrete-distributions.pdf</a></p>

## TU ONLINE

[www.highlightcomputer.com/tuonline.htm](http://www.highlightcomputer.com/tuonline.htm)

## Technological Universities Study Support Program

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If any link is not working, please send the link to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

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## MyanmarTechnological University Curriculum

[www.highlightcomputer.com/ttucurriculum.htm](http://www.highlightcomputer.com/ttucurriculum.htm)

[www.ipemyanmar.org/IQYTUResources.htm](http://www.ipemyanmar.org/IQYTUResources.htm)

## LECTURES

<http://www.highlightcomputer.com/tulectures.htm>

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Electronic Engineering

Electrical Power Engineering

Civil Engineering

Mechanical Engineering

ICT Engineering

Mechatronics Engineering

Chemical Engineering

Petroleum Engineering

### Other BE Level Curriculums

Architectural Engineering

(First three years common with BE-Civil)

Metallurgical & Materials Engineering

(First three years common with BE-Mechanical)

Marine Electrical & Electronics Engineering

(First four years common with BE-Mechatronics)

Mineral Extraction & Explosion Protection Engineering

(First four years common with BE-Petroleum)

Thanlyin Technological University (TTU)

Department of Electronic Engineering

Curriculum for Bachelor of Engineering

(New 6 year Direct Intake System)

FIRST YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M-11011	Myanmar I	2	0	0	3	2	4
2	E-11011	English I	2	1	0	3	2.5	4.5
3	EM-11001	Engineering Mathematics	4	2	0	6	5	9
4	E.Ch-11011	Engineering Chemistry I	3	1	2	6	4.5	7.5
5	E.Ph-11011	Engineering Physics I	2	1	2	5	3.5	5.5
6	ME-11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	EcE-11011	Fundamental of Electronic CircuitsI	2	0	1	3	2.5	4.5
Total			16	5	7	29	22	38

FIRST YEAR (Second Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M-12011	Myanmar II	2	0	0	3	2	4
2	E-12011	English II	2	1	0	3	2.5	4.5
3	EM-12002	Engineering Mathematics	4	2	0	6	5	9
4	E.Ch-12011	Engineering Chemistry II	3	1	2	6	3.5	7.5
5	E.Ph-12011	Engineering Physics II	2	1	2	5	3.5	5.5
6	ME-12011	Basic Engineering Drawing II	1	0	2	3	2	3
7	EcE-12011	Fundamental of Electronic Circuits II	2	0	1	3	2.5	4.5
Total			16	5	7	29	22	38

Remark : After second semester examination, Industrial Training (Visit) under the supervision of teachers.

SECOND YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-21011	English	2	1	0	3	2.5	4.5
2	EM-21003	Engineering Mathematics	4	2	0	6	5	9
3	EcE-21002	Communication Principles I	2	0	1	3	2.5	4.5
4	EcE-21001	Electronic Engineering Circuit I	2	0	2	4	3	5
5	EcE-21021	Digital Electronics I	2	0	1	3	2.5	4.5
6	EcE-21011	Microelectronics I	2	1	1	4	3	5
7	EcE-21014	Technical Programming I	2	0	2	4	3	5
Total			16	4	7	27	21.5	37.5

SECOND YEAR (Second Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-22011	English	2	1	0	3	2.5	4.5
2	EM-22004	Engineering Mathematics	4	2	0	6	5	9
3	EcE-22002	Communication Principles II	2	0	1	3	2.5	4.5
4	EcE-22001	Electronic Engineering Circuit II	2	0	2	4	3	5

5	EcE-22021	Digital Electronics II	2	0	1	3	2.5	4.5
6	EcE-22011	Microelectronics II	2	1	1	4	3	5
7	EcE-22014	Technical Programming II	2	0	2	4	3	5
Total			16	4	7	27	21.5	37.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

THIRD YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-31011	English	3	1	0	4	3.5	4.5
2	EM-31005	Engineering Mathematics	4	2	0	6	5	9
3	EcE-31001	Engineering Circuit Analysis I	2	1	2	5	3.5	5.5
4	EcE-31002	Computer Communication I	2	1	1	4	3	5
5	EcE-31011	Engineering Electromagnetic I	2	1	0	3	2.5	4.5
6	EcE-31021	Integrated Electronics I	2	1	1	4	3	5
7	EcE-31003	Modeling and Control I	2	1	1	4	3	5
Total			14	8	5	30	23.5	38.5

THIRD YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-32011	English	3	1	0	4	3.5	4.5
2	EM-32006	Engineering Mathematics	4	2	0	6	5	9
3	EcE-32001	Engineering Circuit Analysis II	2	1	2	5	3.5	5.5
4	EcE-32002	Computer Communication II	2	1	1	4	3	5
5	EcE-32011	Engineering Electromagnetic II	2	1	0	3	2.5	4.5
6	EcE-32021	Integrated Electronics II	2	1	1	4	3	5
7	EcE-32003	Modeling and Control II	2	1	1	4	3	5
Total			14	8	5	30	23.5	38.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

FOURTH YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		



1	E-41011	English	3	1	0	4	3.5	6.5
2	EM-41016	Engineering Mathematics	4	2	0	6	5	9
3	EcE-41002	Digital Communication I	2	2	0	4	3	5
4	EcE-41021	Digital Design with HDL I	2	1	1	4	3	5
5	EcE-41003	Modern Control System I	2	1	1	4	3	5
6	EP-41043	Electrical Machines I	2	1	1	4	3	5
7	EcE-41031	Industrial Electronic & Control I	2	1	1	4	3	5
Total			14	8	4	30	23.5	40.5

FOURTH YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-42011	English	3	1	0	4	3.5	6.5
2	EM-42016	Engineering Mathematics	4	2	0	6	5	9
3	EcE-42002	Digital Communication II	2	2	0	4	3	5
4	EcE-42021	Digital Design with HDL II	2	1	1	4	3	5
5	EcE-42003	Modern Control System II	2	1	1	4	3	5
6	EP-42043	Electrical Machines II	2	1	1	4	3	5
7	EcE-42031	Industrial Electronic & Control II	2	1	1	4	3	5
Total			14	8	4	30	23.5	40.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

FIFTH YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-51011	English	3	1	0	4	3.5	6.5
2	EcE-51001	Advanced Electronics	4	2	3	9	6.5	10.5
3	EcE-51003	Digital Control System	4	1	3	8	6	10
4	EcE-51013	Microwave Engineering	4	3	1	8	6	10
Total			15	7	7	29	22	37

FIFTH YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-52011	English	3	1	0	4	3.5	6.5

2	EcE-52004	Microprocessor Systems	4	2	3	9	6.5	10.5
3	EcE-52005	Digital Signal Processing	4	1	3	8	6	10
4	EcE-52012	Wireless and Mobile Communications	4	3	1	8	6	10
Total			15	7	7	29	22	37

Remark : After Second Semester Examination, it is necessary to carry out project.

FINAL YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-61011	English	3	1	0	4	3.5	6.5
2	EcE-61016	Industrial Management	2	2	0	4	3	5
3	EcE-61015	Network Planning and Management (Project)	2	2	0	4	3	5
4	EcE-61001	Software Tools for Electronic Design (Project)	2	0	2	4	3	5
5	EcE-61012	Modern Electronic Communication Systems I	2	2	0	4	3	5
6	EcE-61003	PLC and SCADA Control System (Project)	2	1	2	5	3.5	5.5
Total			12	8	4	24	18	30

Remark :

For EcE 61001, Software Tools for Electronic Design : No examination, assignments only. Two elected projects will be submitted.

FINAL YEAR (Second Semester)
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In second semester, final year students have to give at least three seminar presentations and viva voce for the Graduation Project/ Internship Program/ Mini Thesis.

Take Credit Points = 10

(1 Lecture = 1 credit, 1 tutorial = 0.5 credit and 1 practical = 0.5 credit) for all six years

Thanlyin Technological University (TTU)

Department of Electrical Power Engineering

Curriculum for Bachelor of Engineering (New 6 year Direct Intake System)

FIRST YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				CreditPoints	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 11011	Myanmar I	2	0	0	2	2	4
2	E 11011	English I	2	1	0	3	2.5	4.5
3	EM 11001	Engineering Mathematics I	4	2	0	6	5	9
4	E.Ch. 11011	Engineering Chemistry I	2	1	2	5	3.5	5.5
5	E.Ph. 11011	Engineering Physics I	2	1	2	5	3.5	5.5

6	ME 11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	ME 11011	Principle of Electrical Engineering I	2	0	1	3	2.5	4.5
Total			15	5	7	27	21	36

FIRST YEAR (Semester Two) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 12011	Myanmar II	2	0	0	2	2	4
2	E 12011	English II	2	1	0	3	2.5	4.5
3	EM 12002	Engineering Mathematics II	4	2	0	6	5	9
4	EM 12012	Engineering Chemistry II	2	1	2	5	3.5	5.5
5	E.Ch. 12011	Engineering Physics II	2	1	2	5	3.5	5.5
6	E.Ph. 12011	Basic Engineering Drawing II	1	0	2	3	2	3
7	ME 12011	Principle of Electrical Engineering II	2	0	1	3	2.5	4.5
Total			15	5	7	27	21	36

SECOND YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 21011	English	2	1	0	3	2.5	4.5
2	EM 21003	Engineering Mathematics III	4	2	0	6	5	9
3	EP 21011	Electrical Engineering Circuit Analysis I	3	1	1	5	4	7
4	EP 21014	Basic Electronics I	2	1	1	4	3	5
5	EP 21021	Electromechanics I	2	1	1	4	3	5
6	EP 21026	Generation, Transmission and Distribution	2	1	0	4	2.5	4.5
7	ME 21015	Engineering Mechanics I	3	1	0	4	3.5	6.5
Total			18	8	4	30	24	41.5

SECOND YEAR (Semester Two) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 22011	English	2	1	0	3	2.5	4.5
2	EM 22004	Engineering Mathematics IV	4	2	0	6	5	9
3	EP 21011	Electrical Engineering Circuit Analysis II	3	1	1	5	4	7
4	EP 22014	Basic Electronics II	2	1	1	4	3	5

5	EP 22021	Electromechanics II	2	1	1	4	3	5
6	EP 22026	Generation, Transmission and Distribution	2	1	0	4	2.5	4.5
7	ME 22015	Engineering Mechanics II	3	1	0	4	3.5	6.5
Total			18	8	4	30	23.5	41.5

THIRD YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 31011	English	2	1	0	3	2.5	4.5
2	EM 31005	Differential Equation	4	2	0	6	5	9
3	ME 31034	Mechanical Engineering Fundamental I	2	1	0	3	3.5	4.5
4	EP 31011	Electrical Engineering Circuit Analysis III	2	1	1	5	3	5
5	EP 31014	Power Electronics I	2	1	1	4	3	5
6	EP 31021	Electrical Machine and Operation I	2	1	1	4	3	5
7	EP 31033	Electromagnetic Field I	2	1	0	4	2.5	4.5
8	EP 31025	Electrical Measurement Instrumentation	3	1	1	4	4	7
Total			21	9	3	33	28	44.5

THIRD YEAR (Semester Two) (15 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 32011	English	2	1	0	3	2.5	4.5
2	EM 32006	Differential Equation II	4	2	0	6	5	9
3	ME 32034	Mechanical Engineering Fundamental	2	1	0	3	3.5	4.5
4	EP 32011	Electrical Engineering Circuit Analysis IV	3	1	1	5	4	7
5	EP 32014	Power Electronics II	2	1	1	4	3	5
6	EP 32021	Electrical Machine and Operation II	2	1	1	4	3	5
7	EP 32033	Electromagnetic Field II	2	1	1	4	3	5
8	EP 32034	Electrical Design, Estimating and Costing	3	1	0	4	3.5	6.5
Total			21	9	3	33	28	46.5

Remark : 31025 + 32034 (■) ■■■■■■■■ □ ■ (■■■■) ■ □ ■  
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FOURTH YEAR (Semester One) (18 weeks)					
Sr.	Course	Courses	Period /week(avg.)	Credit	Independent





No	Code	Course	Lect.	Tut.	Pract.	Total	IL	Points
1	M-11011	Myanmar	2	0	0	2	4	2
2	E-11011	English	2	1	0	3	4.5	2.5
3	EM-11001	Engineering Mathematics	4	2	0	6	9	5
4	E.Ch.11011	Engineering Chemistry	3	1	2	6	7.5	4.5
5	E.Ph.11011	Engineering Physics	2	1	2	5	5.5	3.5
6	ME-11011	Basic Engineering Drawing I	1	0	2	3	3	2
7	CE 11022	Building Materials & Construction	2	1	1	4	5	3
Total			16	6	7	29	38.5	22.5

Remark:

#### FIRST YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	M-12011	Myanmar	2	0	0	2	4	2
2	E-12011	English	2	1	0	3	4.5	2.5
3	EM-12002	Engineering Mathematics	4	2	0	6	9	5
4	E.Ch.12011	Engineering Chemistry	3	1	2	6	7.5	4.5
5	E.Ph.12011	Engineering Physics	2	1	2	5	5.5	3.5
6	ME-12011	Basic Engineering Drawing I	1	0	2	3	3	2
7	CE 12022	Building Materials & Construction	2	1	1	4	5	3
Total			16	6	7	29	38.5	22.5

Remark:

#### SECOND YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-21011	English	2	1	0	3	4.5	2.5
2	EM-21003	Engineering Mathematics	4	2	0	6	9	5
3	ME-21015	Engineering Mechanics	2	1	0	3	4.5	2.5
4	EP 21011	Applied Electrical Engineering	2	1	0	3	4.5	2.5
5	CE 21011	Surveying I	2	1	1	4	5	3
6	CE 21012	Civil Engineering Drawing I	1	0	3	4	3.5	2.5
7	CE 21019	Workshop Technologies & Practices I	1	0	3	4	3.5	2.5
Total			14	6	7	27	34	20.5

Remark:

#### SECOND YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-22011	English	2	1	0	3	4.5	2.5
2	EM-22004	Engineering Mathematics	4	2	0	6	9	5
3	ME-22015	Engineering Mechanics	2	1	0	3	4.5	2.5
4	EP 22011	Applied Electrical Engineering	2	1	0	3	4.5	2.5
5	CE 22011	Surveying II	2	1	1	4	5	3
6	CE 22012	Civil Engineering Drawing II	1	0	3	4	3.5	2.5
7	CE 22019	Workshop Technologies & Practices II	1	0	3	4	3.5	2.5
Total			14	6	7	27	34	20.5

Remark:

#### THIRD YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-31011	English	2	1	0	3	4.5	2.5
2	EM-31005	Engineering Mathematics	4	2	0	6	9	5
3	CE-31011	Surveying III	2	1	1	4	5	3
4	CE 31013	Mechanics of Materials I	2	1	0	3	4.5	2.5
5	CE 31016	Fluid Mechanics I	2	0	1	3	4.5	2.5
6	CE 31017	Transportation Engineering I	2	1	0	3	4.5	2.5
7	CE 31015	Geotechnical Engineering I	2	1	1	4	5	3
8	Geol 31011	Civil Engineering Geology I	2	1	1	4	5	3
Total			18	8	4	30	42	24

Remark:

### THIRD YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-32011	English	2	1	0	3	4.5	2.5
2	EM-32006	Engineering Mathematics	4	2	0	6	9	5
3	CE 32013	Mechanics of Materials II	2	1	0	3	4.5	2.5
4	CE 32016	Fluid Mechanics II	2	0	1	3	4.5	2.5
5	CE 32017	Transportation Engineering II	2	1	0	3	4.5	2.5
6	CE 32015	Geotechnical Engineering II	2	1	1	4	5	3
7	Geol 32011	Civil Engineering Geology II	2	1	1	4	5	3
Total			16	7	3	26	37	21

Remark:

### FOURTH YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-41011	English	2	1	0	3	4.5	2.5
2	EM-41007	Engineering Mathematics	4	2	0	6	9	5
3	CE 41013	Theory of Structures I	2	1	0	3	4.5	2.5
4	CE 41014	Design of Timber Structures	2	1	0	3	4.5	2.5
5	CE 41015	Geotechnical Engineering III	2	1	1	4	5	3
6	CE 41016	Hydraulic Engineering and Applied Hydraulics I	2	1	1	4	5	3
7	CE 41017	Transportation Engineering III	2	1	0	3	4.5	2.5
8	HSS 41011	Humanity and Social Science I	2	1	0	3	4.5	2.5
Total			18	9	2	29	41.5	23.5

Remark:

### FOURTH YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week				IL	Credit Points
			Lect.	Tut.	Pract.	Total		
1	E-42011	English	2	1	0	3	4.5	2.5
2	EM-42008	Engineering Mathematics	4	2	0	6	9	5
3	CE 42013	Theory of Structures II	2	1	0	3	4.5	2.5
4	CE 42026	Engineering Hydrology	2	1	0	3	4.5	2.5
5	CE 42016	Hydraulic Engineering and Applied Hydraulics II	2	1	1	4	5	3
6	CE 42017	Transportation Engineering IV	2	1	0	3	4.5	2.5
7	CE 42018	Environmental Engineering I	2	1	1	4	5	3
8	HSS 42011	Humanity and Social Science II	2	1	0	3	4.5	2.5
Total			18	9	2	29	41.5	23.5

Remark:

### FIFTH YEAR (First Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-51011	English	2	1	0	3	4.5	2.5
2	CE 51013	Theory of Structures III	2	1	0	3	4.5	2.5
3	CE 51014	Design of Reinforced Concrete Structures I	2	1	0	3	4.5	2.5



4	CE 51012	Civil Engineering Construction Technology and Engineering Economics	2	1	0	3	4.5	2.5
5	CE 51016	Design of Hydraulic Structures I	2	1	1	4	5	3
6	CE 51024	Design of Steel Structures I	2	1	0	3	4.5	2.5
7	CE 51018	Environmental Engineering II	2	1	1	4	4	3
8	CE 51022	Estimating and Specifications I	1	0	3	4	3.5	2.5
Total			15	7	5	27	35	21

Remark:

#### FIFTH YEAR (Second Semester)

Sr. No	Code	Course	Periods/Week					Credit Points
			Lect.	Tut.	Pract.	Total	IL	
1	E-52011	English	2	1	0	3	4.5	2.5
2	CE 52014	Design of Reinforced Concrete Structures II	2	1	0	3	4.5	2.5
3	CE 52012	Business Administration	2	1	0	3	4.5	2.5
4	CE 52016	Design of Hydraulic Structures II	2	1	1	4	5	3
5	CE 52024	Design of Steel Structures II	2	1	0	3	4.5	2.5
6	CE 52018	Environmental Engineering III	2	1	1	4	5	3
7	CE 52022	Estimating and Specifications II	1	0	3	4	3.5	2.5
Total			14	6	5	25	31.5	18.5

Remark:

#### SIXTH YEAR (First Semester)

Sr. No	Code	Course	Periods/Week				Credit Points
			Lect.	Tut.	Pract.	Total	
1	E 61011	English	2	1	0	3	2.5
3	CE 61019	Computer Application in Civil Engineering	1	0	3	4	2.5
Total			3	1	3	7	5

Remark:

SIXTH YEAR (Second Semester)

Graduation Project/Internship Program/ Mini Thesis (Credit Point9)

Ministry of Education

Thanlyin Technological University (TTU)

Department of Mechanical Engineering

Curriculum for Bachelor of Mechanical Engineering

(New 6 year Direct Intake System)

FIRST YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut.	Prac.	Tot.		

1	M 11001	Myanmar	2	0	0	2	2	4
2	E 11011	English	2	1	0	3	2.5	4.5
3	EM 11001	Engineering Mathematics I	4	2	0	6	5	9
4	Ph 11001	Engineering Physics I	2	1	2	5	3.5	5.5
5	Ch 11001	Engineering Chemistry I	3	1	2	6	4.5	7.5
6	ME 11011	Basic Engineering Drawing	1	0	2	3	2	3
7	ME 11012	Workshop Practice	0	0	2	2	1	1
Total			14	5	8	27	20.5	34.5

FIRST YEAR (Semester Two) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	M 12001	Myanmar	2	0	0	2	2	4
2	E 12011	English	2	1	0	3	2.5	4.5
3	EM 12002	Engineering Mathematics II	4	2	0	6	5	9
4	Ph 12001	Engineering Physics II	2	1	2	5	3.5	5.5
5	Ch 12001	Engineering Chemistry II	3	1	2	6	4.5	7.5
6	ME 12011	Basic Engineering Drawing	1	0	2	3	2	3
7	ME 12012	Workshop Practice	0	0	2	2	1	1
Total			14	5	8	27	20.5	34.5

SECOND YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				CreditPoints	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 21001	English	2	1	0	3	2.5	4.5
2	EM 21003	Engineering Mathematics III	4	2	0	6	5	9
3	ME 21011	Machine Drawing	1	0	2	3	2	3
4	ME 21012	Workshop Technology	1	0	2	3	2	3
5	ME 21015	Engineering Mechanics	2	1	0	3	2.5	4.5
6	ME 21013	Engineering Thermodynamics I	2	1	1	4	3	5
7	EP 21013	Applied Electrical Engineering	2	1	1	4	3	5
Total			14	6	6	26	20	34

SECOND YEAR (Semester Two) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 22001	English	2	1	0	3	2.5	4.5
2	EM 22004	Engineering Mathematics IV	4	2	0	6	5	9
3	ME 22011	Machine Drawing	1	0	2	3	2	3
4	ME 22012	Workshop Technology	1	0	2	3	2	3
5	ME 22015	Engineering Mechanics	2	1	0	3	2.5	4.5
6	ME 22013	Engineering Thermodynamics I	2	1	1	4	3	5
7	EP 22013	Applied Electrical Engineering	2	1	1	4	3	5

Total	14	6	6	26	20	34
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THIRD YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 31011	English	2	1	0	3	2.5	4.5
2	EM 31005	Engineering Mathematics V	4	2	0	6	5	9
3	ME 31013	Engineering Thermodynamics II	2	1	1	4	3	5
4	ME 31014	Strength of Materials I	2	1	1	4	3	5
5	ME 31015	Theory of Machines I	2	1	1	4	3	5
6	Met 31071	Engineering Materials	2	1	0	3	2.5	4.5
7	ME 31022	Production Technology	2	1	1	4	3	5
8	EcE 31014	Basic Electronic Engineering	2	1	1	4	3	5
Total			18	9	5	32	25	43

THIRD YEAR (Semester Two) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 32011	English	2	1	0	3	2.5	4.5
2	EM 32006	Engineering Mathematics VI	4	2	0	6	5	9
3	ME 32013	Engineering Thermodynamics II	2	1	1	4	3	5
4	ME 32014	Strength of Materials I	2	1	1	4	3	5
5	ME 32015	Theory of Machines I	2	1	1	4	3	5
6	Met 32071	Engineering Materials	2	1	0	3	2.5	4.5
7	ME 32022	Production Technology	2	1	1	4	3	5
8	EcE 32014	Basic Electronic Engineering	2	1	1	4	3	5
Total			18	9	5	32	25	43

FOURTH YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 41011	English	2	1	0	3	2.5	4.5
2	EM 41007	Engineering Mathematics VII	4	2	0	6	5	9
3	ME 41032	Manufacturing System and Automations	2	0	2	4	3	5
4	ME 41031	Design of Machine elements	2	1	0	3	2.5	4.5
5	ME 41033	Heat Transfer	2	1	1	4	3	5
6	ME 41014	Strength of Materials II	2	1	1	4	3	5
7	ME 41016	Fluid Mechanics I	2	1	1	4	3	5
8	ME 41015	Theory of Machines II	2	1	1	4	3	5
Total			18	8	6	32	25	43

FOURTH YEAR (Semester Two) (18 weeks)					
Sr.			Period/week	Credit	Independent

No.	Code	Courses	Lect	Tut.	Pract	Tot.	Points	Learning
1	E 42011	English	2	1	0	3	2.5	4.5
2	EM 42008	Engineering Mathematics VIII	4	2	0	6	5	9
3	ME 42042	CAD/CAM	2	0	2	4	3	5
4	ME 42031	Design of Machine elements	2	1	0	3	2.5	4.5
5	ME 42033	Heat Transfer	2	1	1	4	3	5
6	ME 42014	Strength of Materials II	2	1	1	4	3	5
7	ME 42016	Fluid Mechanics I	2	1	1	4	3	5
8	ME 42015	Theory of Machines II	2	1	1	4	3	5
Total			18	8	6	32	25	43

FIFTH YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 51011	English	2	1	0	3	2.5	4.5
2	ME 51043	Gas Turbine Theory	2	1	1	4	3	5
3	ME 51015	Vibration and Control	2	1	1	4	3	5
4	ME 51017	Refrigeration and Air-conditioning	2	1	1	4	3	5
5	ME 51028	Industrial Engineering and Management	2	1	0	3	2.5	4.5
6	ME 51023	Internal Combustion Engines	2	1	1	4	3	5
7	ME 51016	Fluid Mechanics II	2	1	1	4	3	5
8	ME 51031	Machine Design and Project	2	0	1	3	2.5	4.5
Total			16	7	6	29	22.5	38.5

FIFTH YEAR (Semester Two) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 52011	English	2	1	0	3	2.5	4.5
2	ME 52043	Gas Turbine Theory	2	1	1	4	3	5
3	ME 52016	Fluid Mechanics II	2	1	1	4	3	5
4	ME 52015	Vibration and Control	2	1	1	4	3	5
5	ME 52017	Refrigeration and Air-conditioning	2	1	1	4	3	5
6	ME 52028	Industrial Engineering and Management	2	1	0	3	2.5	4.5
7	ME 52023	Internal Combustion Engines	2	1	1	4	3	5
8	ME 52031	Machine Design and Project	2	0	1	3	2.5	4.5
Total			16	7	6	29	22.5	38.5

FINAL YEAR (Semester One) (18 weeks)								
Sr. No.	Code	Courses	Period/week				Credit Points	Independent Learning
			Lect	Tut	Pract	Tot.		
1	E 61011	English	2	1	0	3	2.5	4.5

2	ME 61020	Renewable Energy	2	1	1	4	3	5
3	ME 61019	Computer Application in Mech Engg	3	1	2	6	4.5	7.5
4	ME 61028	Engineering Management	2	1	0	3	2.5	4.5
5	HSS 61012	Huminties and Social Science	3	0	0	3	3	6
Total			12	4	3	19	15.5	27.5

#### FINAL YEAR (Semester Two) (18 weeks)

#### Graduation Project/ Research Report

Cause	3rd to Final			1st to Final		
Total Time	205			311		
Academic Time	45	22	%	107	34.41	%
Core Subject Time	160	78	%	204	65.59	%
Industrial Attachment						
Mini-Thesis	30					
Credit Points	160.5			241.5		
Credit Points (75%)	120.375			181.125		

Thanlyin Technological University (TTU)

Department of Information Technology

Curriculum for Bachelor of Engineering (New 6 year Direct Intake System)

#### FIRST YEAR (First Semester)

Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 11011	Myanmar	2	0	0	3	2	4
2	E 11011	English	2	1	0	3	2.5	4.5
3	EM 11001	Engineering Mathematics I	4	2	0	6	5	9
4	E.Ch 11011	Engineering Chemistry I	3	1	2	6	4.5	7.5
5	E.Ph 11011	Engineering Physics I	2	1	2	5	3.5	5.5
6	ME 11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	IT 11013	Introduction to Computer Systems	2	0	1	3	2.5	4.5
Total			16	5	7	28	22	38

#### FIRST YEAR (Second Semester)

Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 12011	Myanmar	2	0	0	2	2	4
2	E 12011	English	2	1	0	3	2.5	4.5
3	EM 12002	Engineering Mathematics II	4	2	0	6	5	9
4	E.Ch 12011	Engineering Chemistry II	3	1	2	6	4.5	7.5
5	E.Ph 12011							

## Orientation Information

Please view the file in the following link first

<http://www.mongroupsydney1.com/orientation.pdf>

Some resources in this site are password protected. Password will be given to the students who come and enrol in the classroom.

Advanced Diploma in Electrical Engineering & Technology

### Students Information

[USI-Unique Students Identifier](#)

[RPL Form](#)

[Work Health & Safety Management System](#)

**All students must read the followings A,B & C**

(A) [Assessment Guides for the units taught by Joe](#)

(B) [Assessment Cover Sheet](#)

(C) [Assessment Feedback sheet](#)

The current training package needs to be viewed for more information about the units.

[Current Training Package UEE11](#)

[Current Training Package UET12](#)

Print out & bring the following documents when you come to the test & [submit](#) the assessment to have teacher's signature

**[Assessment Cover Sheet](#)**

**[Assessment Feedback sheet](#)**

[Assessing Overseas Qualifications for RPL \(Information for Candidates\)](#)

### **PART (1) ADVANCED DIPLOMA ELECTRICAL RESOURCES**

**[E Learning Platform](#)**

**[E Learning Platform for UEE62111+UEE62211 Lessons](#)**

**[Online Tutoring & Learning support website Download Centre](#)**

[20281+20282+20278 Syllabus](#)

[EE07-EE011 Study Guide](#)

[E081 Class Lessons](#)

[E081 Material Science](#)

[Non Metallic Materials](#)

[E083 Electro-technology Competency Development](#)

[E083 Electro-technology Competency Development \(Electronics\)](#)

- [G033+G063+G107 \(Week 1 to 6 Lessons\)\(G033\)](#)

- [G063 Wk 7+8](#)

- [G033 Hot Water System](#)

- [G106 Cable Termination \(UG Cable\)](#)

- [G106 Cable Termination](#)

- [G106+G033 Practical](#)

- [G033+G063+G107 Week 10 to 15](#)

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#### **Study Option (1)**

Guided study (Online)Resources+Online exercises+Online Practicals

Click [HERE](#)

#### **Study Option (2)**

Self study (Online) Resources+ Reference materials & Notes

Click [EE011 +1790817794.ZoomsharePDF](#)

#### **Study Option (3)**

Guided study (Face to Face) & Video Mode

(1)Attend the class

Click [Class Teaching Slides + OHP Notes](#)

(2)Take part in practicals

(3)Sit the examination

(4)Study the video lessons in the following link

[Youtube Videos for Electrical Engineering Lessons](#)

- [ElectricallessonvideosV2.htm](#)

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Practicals

[Work performance and practical instruction](#)

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[Instruction to students UEE62211](#)

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[Project Management +Specification Delivery & Assessment Plan](#)

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### **Updated links & sites**

[Physics Part 2](#)

[References](#) (Printed notes for all electrical units)

[Business units assignments](#)

[Business Units Online Lesson Study Link](#)

### **UEE62211 Business Units Competency & Practical**

[Business Units Competency](#)

[UEE62211 Business and Management Units Instruction](#)

[Reference Printed Lesson Back up for](#)

[Electrical Risk Assessment](#)

[Project Specification 2](#)

[Power Project 2](#)

[Project Risk Management References](#)

[Report Writing](#)

[Code of Practice](#)

[Computer Control Programming D150+D151](#)

[Australian Electrician Training](#)

[AS3000](#)

[AS3000:2016](#)

[AS3008](#)

[NSW Electrical Services Rule](#)

[Electrician Capstone unit](#)

[Electrician Capstone Test Old Questions](#)

[Electrician Capstone Unit Study Guide.zip](#)

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### **PART (2) SELF STUDY IN ELECTRICITY SUPPLY INDUSTRY**

[Advanced Diploma in Electricity Supply Industry](#)

[2006 to 2008 Teaching Notes + Practical Data](#)



[2008 to 2010 Class lessons with audio files.](#)

[Practical 1790817794](#)

[Associate Degree in Applied Engineering \(Renewable Energy\)](#)

### **PART (3) RPL REFERENCES FOR EXPLOSION**

### **PROTECTION UNITS**

Click [HERE](#) to access the references for explosion protection

(UEENEEM---) Units

### **PART (4) RPL REFERENCES FOR PROPOSED COURSES**

[Bachelor of Applied Engineering \(Electrical+ Electronics\) +Advanced Diploma/Diploma in Applied Engineering \(Electrical & Electronics\) + Certificate IV in Electrical & Electronics Trade Studies](#)

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## **Building& Construction Engineering**

## **HIGH VOLTAGE SWITCHING**

### **HIGH VOLTAGE SWITCHING UNITS +PHYSICS EXERCISES**

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• [NSW Electrical Services Rule](#)

• [Electrician Capstone Unit Study Guide.zip](#)

• [Advanced Diploma in Electricity Supply Industry](#)

• [2006 to 2008 Teaching Notes + Practical Data](#)

# ENGINEERING SPECIFICATIONS, STANDARDS & RULES + LIBRARY

[www.highlightcomputer.com/enggstandards.htm](http://www.highlightcomputer.com/enggstandards.htm)

Engineers are requested to contribute the information related to international engineering specifications, standards and rules which are applicable at the worksites. Please provide the online links and those will be put in this page.

## **AUSTRALIAN STANDARDS UPDATED on 14 November 2017**

**DR AS NZS ISO 28500-2017 Information and documentation - WARC file format.pdf (0.28MB)**

[http://www.filefactory.com/file/66q9yeal5h7v/n/DR\\_AS\\_NZS\\_ISO\\_28500-2017\\_Information\\_and\\_documentation\\_-\\_WARC\\_file\\_format.pdf](http://www.filefactory.com/file/66q9yeal5h7v/n/DR_AS_NZS_ISO_28500-2017_Information_and_documentation_-_WARC_file_format.pdf)

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[http://www.filefactory.com/file/63pyhuptmt5v/n/DR\\_SA\\_SNZ\\_TR\\_ISO\\_IEC\\_19788.11-2017\\_Information\\_technology\\_-\\_Learning\\_education\\_and\\_training\\_-\\_Metadata\\_for\\_le.pdf](http://www.filefactory.com/file/63pyhuptmt5v/n/DR_SA_SNZ_TR_ISO_IEC_19788.11-2017_Information_technology_-_Learning_education_and_training_-_Metadata_for_le.pdf)

**DR AS NZS ISO 15836.1-2017 Information and documentation - The Dublin Core metadata element set Part 1- Core.pdf (0.27MB)**

[http://www.filefactory.com/file/4dluh733tx01/n/DR\\_AS\\_NZS\\_ISO\\_15836.1-2017\\_Information\\_and\\_documentation\\_-\\_The\\_Dublin\\_Core\\_metadata\\_element\\_set\\_Part\\_1-\\_Core.pdf](http://www.filefactory.com/file/4dluh733tx01/n/DR_AS_NZS_ISO_15836.1-2017_Information_and_documentation_-_The_Dublin_Core_metadata_element_set_Part_1-_Core.pdf)

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### **AUSTRALIAN STANDARDS UPDATED on 09 October 2017**

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[http://www.filefactory.com/file/3qlj9o6k13lx/n/DR\\_AS\\_1668.1-2015\\_Amd\\_1-2017\\_The\\_use\\_of\\_ventilation\\_and\\_air\\_conditioning\\_in\\_building\\_-\\_Fire\\_and\\_smoke\\_control.pdf](http://www.filefactory.com/file/3qlj9o6k13lx/n/DR_AS_1668.1-2015_Amd_1-2017_The_use_of_ventilation_and_air_conditioning_in_building_-_Fire_and_smoke_control.pdf)

**DR AS 1657-2017 Fixed platforms walkways stairways and ladders - Design construction and installation.pdf (2.66MB)**

[http://www.filefactory.com/file/6m9pnu5b5rxz/n/DR\\_AS\\_1657-2017\\_Fixed\\_platforms\\_walkways\\_stairways\\_and\\_ladders\\_-\\_Design\\_construction\\_and\\_installation.pdf](http://www.filefactory.com/file/6m9pnu5b5rxz/n/DR_AS_1657-2017_Fixed_platforms_walkways_stairways_and_ladders_-_Design_construction_and_installation.pdf)

**DR AS 1428.4.2-2017 Design for access and mobility - Wayfinding.pdf (3.12MB)**

[http://www.filefactory.com/file/2rbcrfzwhf2v/n/DR\\_AS\\_1428.4.2-2017\\_Design\\_for\\_access\\_and\\_mobility\\_-\\_Wayfinding.pdf](http://www.filefactory.com/file/2rbcrfzwhf2v/n/DR_AS_1428.4.2-2017_Design_for_access_and_mobility_-_Wayfinding.pdf)

**DR AS 1562.1-2017 Design and installation of sheet roof and wall cladding - Metal.pdf (0.47MB)**

[http://www.filefactory.com/file/5i1c7ebd8bb/n/DR\\_AS\\_1562.1-2017\\_Design\\_and\\_installation\\_of\\_sheet\\_roof\\_and\\_wall\\_cladding\\_-\\_Metal.pdf](http://www.filefactory.com/file/5i1c7ebd8bb/n/DR_AS_1562.1-2017_Design_and_installation_of_sheet_roof_and_wall_cladding_-_Metal.pdf)

**AUSTRALIAN STANDARDS UPDATED on 18 May 2017**

**DR AS NZS ISO 10322.1-2017 CP Ophthalmic optics - Semi-finished spectacle lens blanks - Specifications for si.pdf (0.32MB)**

[http://www.filefactory.com/file/3uiiii90nx5/n/DR\\_AS\\_NZS\\_ISO\\_10322.1-2017\\_CP\\_Ophthalmic\\_optics\\_-\\_Semi-finished\\_spectacle\\_lens\\_blanks\\_-\\_Specifications\\_for\\_si.pdf](http://www.filefactory.com/file/3uiiii90nx5/n/DR_AS_NZS_ISO_10322.1-2017_CP_Ophthalmic_optics_-_Semi-finished_spectacle_lens_blanks_-_Specifications_for_si.pdf)

**DR AS NZS ISO 8624-2011 Amd 1-2017 CP Ophthalmic optics - Spectacle frames - Measuring system and terminology.pdf (0.31MB)**

[http://www.filefactory.com/file/3rh4dqug7y3v/n/DR\\_AS\\_NZS\\_ISO\\_8624-2011\\_Amd\\_1-2017\\_CP\\_Ophthalmic\\_optics\\_-\\_Spectacle\\_frames\\_-\\_Measuring\\_system\\_and\\_terminology.pdf](http://www.filefactory.com/file/3rh4dqug7y3v/n/DR_AS_NZS_ISO_8624-2011_Amd_1-2017_CP_Ophthalmic_optics_-_Spectacle_frames_-_Measuring_system_and_terminology.pdf)

**DR AS NZS ISO 8598.1-2017 CP Optics and optical instruments - Focimeters - General purpose instruments.pdf (0.3MB)**

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**DR AS NZS 62368.1-2017 Audio video information and communication technology equipment - Safety requirements (.pdf (0.38MB)**

[http://www.filefactory.com/file/5jrppv5ggvu5/n/DR\\_AS\\_NZS\\_62368.1-2017\\_Audio\\_video\\_information\\_and\\_communication\\_technology\\_equipment\\_-\\_Safety\\_requirements\\_\(.pdf](http://www.filefactory.com/file/5jrppv5ggvu5/n/DR_AS_NZS_62368.1-2017_Audio_video_information_and_communication_technology_equipment_-_Safety_requirements_(.pdf)

**DR AS NZS 4761.1-2017 Competencies for working with electrical equipment for hazardous areas (EEHA) - Compete.pdf (0.97MB)**

[http://www.filefactory.com/file/1o9uzpcm98t7/n/DR\\_AS\\_NZS\\_4761.1-2017\\_Competencies\\_for\\_working\\_with\\_electrical\\_equipment\\_for\\_hazardous\\_areas\\_\(EEHA\)\\_-\\_Compete.pdf](http://www.filefactory.com/file/1o9uzpcm98t7/n/DR_AS_NZS_4761.1-2017_Competencies_for_working_with_electrical_equipment_for_hazardous_areas_(EEHA)_-_Compete.pdf)

**DR AS NZS 60065-2017 Audio video and similar electronic apparatus - Safety requirements (IEC 60065-2014 (ED.8).pdf (0.38MB)**  
[http://www.filefactory.com/file/59c68nvalq0t/n/DR\\_AS\\_NZS\\_60065-2017\\_Audio\\_video\\_and\\_similar\\_electronic\\_apparatus\\_-\\_Safety\\_requirements\\_\(IEC\\_60065-2014\\_\(ED.8\).pdf](http://www.filefactory.com/file/59c68nvalq0t/n/DR_AS_NZS_60065-2017_Audio_video_and_similar_electronic_apparatus_-_Safety_requirements_(IEC_60065-2014_(ED.8).pdf)

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[http://www.filefactory.com/file/5wu9x701ib0p/n/DR\\_AS\\_NZS\\_4361.1-2017\\_CP\\_Guide\\_to\\_hazardous\\_paint\\_management\\_-\\_Lead\\_and\\_other\\_hazardous\\_metallic\\_pigments\\_in.pdf](http://www.filefactory.com/file/5wu9x701ib0p/n/DR_AS_NZS_4361.1-2017_CP_Guide_to_hazardous_paint_management_-_Lead_and_other_hazardous_metallic_pigments_in.pdf)

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**DR AS NZS 1605.1-2017 Methods for sampling and analysing timber preservatives and preservative-treated timbers.pdf (0.37MB)**  
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**DR AS 7240.6-2017 CP Fire detection and alarm systems - Carbon monoxide fire detectors using electro-chemical.pdf (0.24MB)**  
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**DR AS 5388.1-2012 Amd 1-2017 Forensic analysis - Recognition recording recovery transport and storage of material.pdf (0.26MB)**  
[http://www.filefactory.com/file/3i1m4tdg9na3/n/DR\\_AS\\_5388.1-2012\\_Amd\\_1-2017\\_Forensic\\_analysis\\_-\\_Recognition\\_recording\\_recovery\\_transport\\_and\\_storage\\_of\\_material.pdf](http://www.filefactory.com/file/3i1m4tdg9na3/n/DR_AS_5388.1-2012_Amd_1-2017_Forensic_analysis_-_Recognition_recording_recovery_transport_and_storage_of_material.pdf)

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**DR AS 4497-2017 Roundslings - Synthetic fibre.pdf (2.65MB)**  
[http://www.filefactory.com/file/2lquopg3uxjr/n/DR\\_AS\\_4497-2017\\_Roundslings\\_-\\_Synthetic\\_fibre.pdf](http://www.filefactory.com/file/2lquopg3uxjr/n/DR_AS_4497-2017_Roundslings_-_Synthetic_fibre.pdf)

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**DR AS 4024.2802-2017 CP Safety of machinery - Application of protective equipment to detect the presence of people.pdf (0.24MB)**  
[http://www.filefactory.com/file/5lzc43ydo3f/n/DR\\_AS\\_4024.2802-2017\\_CP\\_Safety\\_of\\_machinery\\_-\\_Application\\_of\\_protective\\_equipment\\_to\\_detect\\_the\\_presence\\_of\\_people.pdf](http://www.filefactory.com/file/5lzc43ydo3f/n/DR_AS_4024.2802-2017_CP_Safety_of_machinery_-_Application_of_protective_equipment_to_detect_the_presence_of_people.pdf)

**DR AS 4001.1-2017 CP Vehicles - Rear marker plates - Reflective rear marker plates - Classification and manufacture.pdf (1.61MB)**  
[http://www.filefactory.com/file/3ih2ekazcpu5/n/DR\\_AS\\_4001.1-2017\\_CP\\_Vehicles\\_-\\_Rear\\_marker\\_plates\\_-\\_Reflective\\_rear\\_marker\\_plates\\_-\\_Classification\\_and\\_manufacture.pdf](http://www.filefactory.com/file/3ih2ekazcpu5/n/DR_AS_4001.1-2017_CP_Vehicles_-_Rear_marker_plates_-_Reflective_rear_marker_plates_-_Classification_and_manufacture.pdf)

**DR AS 3862-2002 Amd 1-2017 External fusion-bonded epoxy coating for steel pipes.pdf (0.31MB)**  
[http://www.filefactory.com/file/2cmrlauc8a1v/n/DR\\_AS\\_3862-2002\\_Amd\\_1-2017\\_External\\_fusion-bonded\\_epoxy\\_coating\\_for\\_steel\\_pipes.pdf](http://www.filefactory.com/file/2cmrlauc8a1v/n/DR_AS_3862-2002_Amd_1-2017_External_fusion-bonded_epoxy_coating_for_steel_pipes.pdf)

**DR AS 1530.8.1-2017 Methods for fire tests on building materials components and structures - Tests on elements.pdf (1.38MB)**  
[http://www.filefactory.com/file/12xqcxuuvyjf/n/DR\\_AS\\_1530.8.1-2017\\_Methods\\_for\\_fire\\_tests\\_on\\_building\\_materials\\_components\\_and\\_structures\\_-\\_Tests\\_on\\_elements.pdf](http://www.filefactory.com/file/12xqcxuuvyjf/n/DR_AS_1530.8.1-2017_Methods_for_fire_tests_on_building_materials_components_and_structures_-_Tests_on_elements.pdf)

**DR AS 2688-2017 CP Timber and composite doors.pdf (1.17MB)**  
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**DR AS NZS IEC 61034.1-2017 CP Measurement of smoke density of cables burning under defined conditions - Test.pdf (0.31MB)**  
[http://www.filefactory.com/file/7b9yu1p1nwrn/n/DR\\_AS\\_NZS\\_IEC\\_61034.1-2017\\_CP\\_Measurement\\_of\\_smoke\\_density\\_of\\_cables\\_burning\\_under\\_defined\\_conditions\\_-\\_Test.pdf](http://www.filefactory.com/file/7b9yu1p1nwrn/n/DR_AS_NZS_IEC_61034.1-2017_CP_Measurement_of_smoke_density_of_cables_burning_under_defined_conditions_-_Test.pdf)

**DR AS NZS IEC 60754.1-2017 CP Test on gases evolved during combustion of materials from cables - Determination.pdf (0.31MB)**  
[http://www.filefactory.com/file/5nd3zgx0i48x/n/DR\\_AS\\_NZS\\_IEC\\_60754.1-2017\\_CP\\_Test\\_on\\_gases\\_evolved\\_during\\_combustion\\_of\\_materials\\_from\\_cables\\_-\\_Determination.pdf](http://www.filefactory.com/file/5nd3zgx0i48x/n/DR_AS_NZS_IEC_60754.1-2017_CP_Test_on_gases_evolved_during_combustion_of_materials_from_cables_-_Determination.pdf)

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**DR2 AS NZS 1252.1-2016 CP High-strength steel fastener assemblies for structural engineering - Bolts nuts and.pdf (1.16MB)**

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**DR AS NZS 3105-2014 Amd 1-2016 Approval and test specification - Electrical portable outlet devices.pdf (0.23MB)**

[http://www.filefactory.com/file/62w2emou0cjx/n/DR\\_AS\\_NZS\\_3105-2014\\_Amd\\_1-2016\\_Approval\\_and\\_test\\_specification\\_-\\_Electrical\\_portable\\_outlet\\_devices.pdf](http://www.filefactory.com/file/62w2emou0cjx/n/DR_AS_NZS_3105-2014_Amd_1-2016_Approval_and_test_specification_-_Electrical_portable_outlet_devices.pdf)

**DR AS NZS 2589-2016 Gypsum linings - Application and finishing.pdf (3.16MB)**

[http://www.filefactory.com/file/4f82uz4blp15/n/DR\\_AS\\_NZS\\_2589-2016\\_Gypsum\\_linings\\_-\\_Application\\_and\\_finishing.pdf](http://www.filefactory.com/file/4f82uz4blp15/n/DR_AS_NZS_2589-2016_Gypsum_linings_-_Application_and_finishing.pdf)

**DR AS NZS 2638.2-2011 Amd 1-2016 Gate valves for waterworks purposes - Resilient seated.pdf (0.27MB)**

[http://www.filefactory.com/file/3l4kz26125fr/n/DR\\_AS\\_NZS\\_2638.2-2011\\_Amd\\_1-2016\\_Gate\\_valves\\_for\\_waterworks\\_purposes\\_-\\_Resilient\\_seated.pdf](http://www.filefactory.com/file/3l4kz26125fr/n/DR_AS_NZS_2638.2-2011_Amd_1-2016_Gate_valves_for_waterworks_purposes_-_Resilient_seated.pdf)

**DR AS NZS 2638.1-2011 Amd 1-2016 Gate valves for waterworks purposes - Metal seated.pdf (0.31MB)**

[http://www.filefactory.com/file/47uf2nqum6pb/n/DR\\_AS\\_NZS\\_2638.1-2011\\_Amd\\_1-2016\\_Gate\\_valves\\_for\\_waterworks\\_purposes\\_-\\_Metal\\_seated.pdf](http://www.filefactory.com/file/47uf2nqum6pb/n/DR_AS_NZS_2638.1-2011_Amd_1-2016_Gate_valves_for_waterworks_purposes_-_Metal_seated.pdf)

**DR AS 5389-2016 Space heating and cooling and ventilation systems - Calculation of energy consumption.pdf (2.87MB)**

[http://www.filefactory.com/file/1vbl0ajqiaj5/n/DR\\_AS\\_5389-2016\\_Space\\_heating\\_and\\_cooling\\_and\\_ventilation\\_systems\\_-\\_Calculation\\_of\\_energy\\_consumption.pdf](http://www.filefactory.com/file/1vbl0ajqiaj5/n/DR_AS_5389-2016_Space_heating_and_cooling_and_ventilation_systems_-_Calculation_of_energy_consumption.pdf)

**DR AS NZS 1301.530-2016 CP Methods of test for pulp and paper - Determination of colour by diffuse reflectanc.pdf (0.23MB)**

[http://www.filefactory.com/file/75vivf7zm2x/n/DR\\_AS\\_NZS\\_1301.530-2016\\_CP\\_Methods\\_of\\_test\\_for\\_pulp\\_and\\_paper\\_-\\_Determination\\_of\\_colour\\_by\\_diffuse\\_reflectanc.pdf](http://www.filefactory.com/file/75vivf7zm2x/n/DR_AS_NZS_1301.530-2016_CP_Methods_of_test_for_pulp_and_paper_-_Determination_of_colour_by_diffuse_reflectanc.pdf)

**DR AS EN 15918-2016 Cycles - Cycle trailer - Safety requirements and test methods.pdf (0.25MB)**

[http://www.filefactory.com/file/3x6peav5rir7/n/DR\\_AS\\_EN\\_15918-2016\\_Cycles\\_-\\_Cycle\\_trailer\\_-\\_Safety\\_requirements\\_and\\_test\\_methods.pdf](http://www.filefactory.com/file/3x6peav5rir7/n/DR_AS_EN_15918-2016_Cycles_-_Cycle_trailer_-_Safety_requirements_and_test_methods.pdf)



**DR AS 5132-2016 Waters - Examination for Legionella spp. including Legionella pneumophila - Using concentrati.pdf (0.56MB)**  
[http://www.filefactory.com/file/28p2pwzsagd5/n/DR\\_AS\\_5132-2016\\_Waters -  
\\_Examination\\_for\\_Legionella\\_spp.\\_including\\_Legionella\\_pneumophila - Using\\_concentrati.pdf](http://www.filefactory.com/file/28p2pwzsagd5/n/DR_AS_5132-2016_Waters_-_Examination_for_Legionella_spp._including_Legionella_pneumophila_-_Using_concentrati.pdf)

**DR AS 4632-2005 Amd 1-2016 Over-pressure and under-pressure cut off devices.pdf (0.16MB)**  
[http://www.filefactory.com/file/4da2bwbd101n/n/DR\\_AS\\_4632-2005\\_Amd\\_1-2016\\_Over-pressure\\_and\\_under-  
pressure\\_cut\\_off\\_devices.pdf](http://www.filefactory.com/file/4da2bwbd101n/n/DR_AS_4632-2005_Amd_1-2016_Over-pressure_and_under-pressure_cut_off_devices.pdf)

**DR AS 4631-2005 Amd 1-2016 Limited flexibility connectors for gas.pdf (0.16MB)**  
[http://www.filefactory.com/file/16ynzbxv1b2n/n/DR\\_AS\\_4631-2005\\_Amd\\_1-2016\\_Limited\\_flexibility\\_connectors\\_for\\_gas.pdf](http://www.filefactory.com/file/16ynzbxv1b2n/n/DR_AS_4631-2005_Amd_1-2016_Limited_flexibility_connectors_for_gas.pdf)

**DR AS 4629-2005 Amd 2-2016 Automatic shut off valves and vent valves.pdf (0.16MB)**  
[http://www.filefactory.com/file/2l0gqg4vmahv/n/DR\\_AS\\_4629-2005\\_Amd\\_2-2016\\_Automatic\\_shut\\_off\\_valves\\_and\\_vent\\_valves.pdf](http://www.filefactory.com/file/2l0gqg4vmahv/n/DR_AS_4629-2005_Amd_2-2016_Automatic_shut_off_valves_and_vent_valves.pdf)

**DR AS 4624-2005 Amd 1-2016 Combination controls for gas.pdf (0.16MB)**  
[http://www.filefactory.com/file/1ma5wisyp1s7/n/DR\\_AS\\_4624-2005\\_Amd\\_1-2016\\_Combination\\_controls\\_for\\_gas.pdf](http://www.filefactory.com/file/1ma5wisyp1s7/n/DR_AS_4624-2005_Amd_1-2016_Combination_controls_for_gas.pdf)

**DR AS 4628-2005 Amd 1-2016 Pressure and temperature limit devices for use with gas burners.pdf (0.17MB)**  
[http://www.filefactory.com/file/71a93hkmguvp/n/DR\\_AS\\_4628-2005\\_Amd\\_1-  
2016\\_Pressure\\_and\\_temperature\\_limit\\_devices\\_for\\_use\\_with\\_gas\\_burners.pdf](http://www.filefactory.com/file/71a93hkmguvp/n/DR_AS_4628-2005_Amd_1-2016_Pressure_and_temperature_limit_devices_for_use_with_gas_burners.pdf)

**DR AS 4621-2004 Amd 1-2016 Regulators for use with liquefied petroleum - Vapour phase.pdf (0.16MB)**  
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**DR AS 4620-2004 Amd 1-2016 Thermoelectric flame safeguards.pdf (0.16MB)**  
[http://www.filefactory.com/file/3gz70ojqgn75/n/DR\\_AS\\_4620-2004\\_Amd\\_1-2016\\_Thermoelectric\\_flame\\_safeguards.pdf](http://www.filefactory.com/file/3gz70ojqgn75/n/DR_AS_4620-2004_Amd_1-2016_Thermoelectric_flame_safeguards.pdf)

**DR AS 4618-2004 Amd 1-2016 Gas appliance regulators.pdf (0.16MB)**  
[http://www.filefactory.com/file/2like5wl01dj/n/DR\\_AS\\_4618-2004\\_Amd\\_1-2016\\_Gas\\_appliance\\_regulators.pdf](http://www.filefactory.com/file/2like5wl01dj/n/DR_AS_4618-2004_Amd_1-2016_Gas_appliance_regulators.pdf)

**DR AS 4617-2004 Amd 2-2016 Manual shut off gas valves.pdf (0.16MB)**  
[http://www.filefactory.com/file/2jwdjmmc3sqn/n/DR\\_AS\\_4617-2004\\_Amd\\_2-2016\\_Manual\\_shut\\_off\\_gas\\_valves.pdf](http://www.filefactory.com/file/2jwdjmmc3sqn/n/DR_AS_4617-2004_Amd_2-2016_Manual_shut_off_gas_valves.pdf)

**DR AS 4586-2013 Amd 1-2016 Slip resistance classification of new pedestrian surface materials.pdf (0.18MB)**  
[http://www.filefactory.com/file/z9vgmiji68j/n/DR\\_AS\\_4586-2013\\_Amd\\_1-  
2016\\_Slip\\_resistance\\_classification\\_of\\_new\\_pedestrian\\_surface\\_materials.pdf](http://www.filefactory.com/file/z9vgmiji68j/n/DR_AS_4586-2013_Amd_1-2016_Slip_resistance_classification_of_new_pedestrian_surface_materials.pdf)

**DR AS 3961-2016 The storage and handling of liquefied natural gas.pdf (0.77MB)**  
[http://www.filefactory.com/file/2epaqvnrkaw/n/DR\\_AS\\_3961-2016\\_The\\_storage\\_and\\_handling\\_of\\_liquefied\\_natural\\_gas.pdf](http://www.filefactory.com/file/2epaqvnrkaw/n/DR_AS_3961-2016_The_storage_and_handling_of_liquefied_natural_gas.pdf)

**DR AS 4487-2013 Amd 1-2016 Condensed aerosol fire extinguishing systems - Requirements for system design inst.pdf (0.19MB)**  
[http://www.filefactory.com/file/4lgbkf5gims7/n/DR\\_AS\\_4487-2013\\_Amd\\_1-2016\\_Condensed\\_aerosol\\_fire\\_extinguishing\\_systems -  
\\_Requirements\\_for\\_system\\_design\\_inst.pdf](http://www.filefactory.com/file/4lgbkf5gims7/n/DR_AS_4487-2013_Amd_1-2016_Condensed_aerosol_fire_extinguishing_systems_-_Requirements_for_system_design_inst.pdf)

**DR AS 3896-2016 Waters - Examination for Legionella spp. including Legionella pneumophila (1).pdf (0.55MB)**  
[http://www.filefactory.com/file/1fdbxvs9wiwd/n/DR\\_AS\\_3896-2016\\_Waters -  
\\_Examination\\_for\\_Legionella\\_spp.\\_including\\_Legionella\\_pneumophila\\_\(1\).pdf](http://www.filefactory.com/file/1fdbxvs9wiwd/n/DR_AS_3896-2016_Waters_-_Examination_for_Legionella_spp._including_Legionella_pneumophila_(1).pdf)

**DR AS 3896-2016 Waters - Examination for Legionella spp. including Legionella pneumophila.pdf (0.55MB)**  
[http://www.filefactory.com/file/6rxljgau2trb/n/DR\\_AS\\_3896-2016\\_Waters -  
\\_Examination\\_for\\_Legionella\\_spp.\\_including\\_Legionella\\_pneumophila.pdf](http://www.filefactory.com/file/6rxljgau2trb/n/DR_AS_3896-2016_Waters_-_Examination_for_Legionella_spp._including_Legionella_pneumophila.pdf)

**DR AS 2344-2016 Limits of electromagnetic interference from overhead a.c. powerlines and high voltage equipme (1).pdf (0.62MB)**  
[http://www.filefactory.com/file/2pla03um4xfb/n/DR\\_AS\\_2344-  
2016\\_Limits\\_of\\_electromagnetic\\_interference\\_from\\_overhead\\_a.c.\\_powerlines\\_and\\_high\\_voltage equipme \(1\).pdf](http://www.filefactory.com/file/2pla03um4xfb/n/DR_AS_2344-2016_Limits_of_electromagnetic_interference_from_overhead_a.c._powerlines_and_high_voltage equipme (1).pdf)

**DR AS 2344-2016 Limits of electromagnetic interference from overhead a.c. powerlines and high voltage equipme.pdf (0.62MB)**  
[http://www.filefactory.com/file/189mit283s1h/n/DR\\_AS\\_2344-  
2016\\_Limits\\_of\\_electromagnetic\\_interference\\_from\\_overhead\\_a.c.\\_powerlines\\_and\\_high\\_voltage equipme.pdf](http://www.filefactory.com/file/189mit283s1h/n/DR_AS_2344-2016_Limits_of_electromagnetic_interference_from_overhead_a.c._powerlines_and_high_voltage equipme.pdf)

**DR AS 1735.11-2016 Lifts escalators and moving walks - Fire-rated landing doors.pdf (0.16MB)**  
[http://www.filefactory.com/file/2kydq9c08wdr/n/DR\\_AS\\_1735.11-2016\\_Lifts\\_escalators\\_and\\_moving\\_walks - Fire-  
rated\\_landing\\_doors.pdf](http://www.filefactory.com/file/2kydq9c08wdr/n/DR_AS_1735.11-2016_Lifts_escalators_and_moving_walks_-_Fire-rated_landing_doors.pdf)

**DR AS 1012.14-2016 Methods of testing concrete - Method for securing and testing cores from hardened concrete.pdf (0.21MB)**  
[http://www.filefactory.com/file/5ojm2uue0kfz/n/DR\\_AS\\_1012.14-2016\\_Methods\\_of\\_testing\\_concrete -](http://www.filefactory.com/file/5ojm2uue0kfz/n/DR_AS_1012.14-2016_Methods_of_testing_concrete_-)

[\\_Method\\_for\\_securing\\_and\\_testing\\_cores\\_from\\_hardened\\_concrete.pdf](#)

## **AUSTRALIAN STANDARDS UPDATED on 14 June 2016**

**DR AS NZS 3112-2016 Approval and test specification - Plugs and socket-outlets.pdf (2.35MB)**

[http://www.filefactory.com/file/5wwrdi5rikt/n/DR\\_AS\\_NZS\\_3112-2016\\_Approval\\_and\\_test\\_specification\\_-\\_Plugs\\_and\\_socket-outlets.pdf](http://www.filefactory.com/file/5wwrdi5rikt/n/DR_AS_NZS_3112-2016_Approval_and_test_specification_-_Plugs_and_socket-outlets.pdf)

**DR AS NZS 3084-2016 Telecommunications installations - Telecommunications pathways and spaces for commercial.pdf (2.83MB)**

[http://www.filefactory.com/file/7e9llqloh5pl/n/DR\\_AS\\_NZS\\_3084-2016\\_Telecommunications\\_installations\\_-\\_Telecommunications\\_pathways\\_and\\_spaces\\_for\\_commercial.pdf](http://www.filefactory.com/file/7e9llqloh5pl/n/DR_AS_NZS_3084-2016_Telecommunications_installations_-_Telecommunications_pathways_and_spaces_for_commercial.pdf)

**DR AS 1743-2016 Road signs - Specifications.pdf (23.84MB)**

[http://www.filefactory.com/file/47ep9i8r0k6n/n/DR\\_AS\\_1743-2016\\_Road\\_signs\\_-\\_Specifications.pdf](http://www.filefactory.com/file/47ep9i8r0k6n/n/DR_AS_1743-2016_Road_signs_-_Specifications.pdf)

**DR AS NZS 1754-2013 Amd 1-2016 Child restraint systems for use in motor vehicles.pdf (0.23MB)**

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**DR AS 60422-2016 Mineral insulating oils in electrical equipment - Supervision and maintenance guidance (IEC).pdf (0.19MB)**

[http://www.filefactory.com/file/7k9qh6ysazpj/n/DR\\_AS\\_60422-2016\\_Mineral\\_insulating\\_oils\\_in\\_electrical\\_equipment\\_-\\_Supervision\\_and\\_maintenance\\_guidance\\_\(IEC\).pdf](http://www.filefactory.com/file/7k9qh6ysazpj/n/DR_AS_60422-2016_Mineral_insulating_oils_in_electrical_equipment_-_Supervision_and_maintenance_guidance_(IEC).pdf)

**DR AS 60296-2016 Fluids for electrotechnical applications - Unused mineral insulating oils for transformers a.pdf (0.2MB)**

[http://www.filefactory.com/file/168pp5avngz1/n/DR\\_AS\\_60296-2016\\_Fluids\\_for\\_electrotechnical\\_applications\\_-\\_Unused\\_mineral\\_insulating\\_oils\\_for\\_transformers\\_a.pdf](http://www.filefactory.com/file/168pp5avngz1/n/DR_AS_60296-2016_Fluids_for_electrotechnical_applications_-_Unused_mineral_insulating_oils_for_transformers_a.pdf)

**DR AS 5124-2016 Safety of machinery - Equipment for power driven parking of motor vehicles - Safety and EMC r.pdf (0.2MB)**

[http://www.filefactory.com/file/6befi2s6w3g5/n/DR\\_AS\\_5124-2016\\_Safety\\_of\\_machinery\\_-\\_Equipment\\_for\\_power\\_driven\\_parking\\_of\\_motor\\_vehicles\\_-\\_Safety\\_and EMC\\_r.pdf](http://www.filefactory.com/file/6befi2s6w3g5/n/DR_AS_5124-2016_Safety_of_machinery_-_Equipment_for_power_driven_parking_of_motor_vehicles_-_Safety_and EMC_r.pdf)

**DR AS 5013.5-2016 Food microbiology - Microbiology of the food chain - Horizontal method for the enumeration.pdf (0.17MB)**

[http://www.filefactory.com/file/uh0u3r3t9xp/n/DR\\_AS\\_5013.5-2016\\_Food\\_microbiology\\_-\\_Microbiology\\_of\\_the\\_food\\_chain\\_-\\_Horizontal\\_method\\_for\\_the Enumeration.pdf](http://www.filefactory.com/file/uh0u3r3t9xp/n/DR_AS_5013.5-2016_Food_microbiology_-_Microbiology_of_the_food_chain_-_Horizontal_method_for_the Enumeration.pdf)

**DR AS 3980-2016 Determination of gas content of coal and carbonaceous material - Direct desorption method.pdf (0.76MB)**

[http://www.filefactory.com/file/1hlpqeiqqij/n/DR\\_AS\\_3980-2016\\_Determination\\_of\\_gas\\_content\\_of\\_coal\\_and\\_carbonaceous\\_material\\_-\\_Direct\\_desorption\\_method.pdf](http://www.filefactory.com/file/1hlpqeiqqij/n/DR_AS_3980-2016_Determination_of_gas_content_of_coal_and_carbonaceous_material_-_Direct_desorption_method.pdf)

**DR AS 2118.1-2016 CP Automatic fire sprinkler systems - General systems.pdf (13.96MB)**

[http://www.filefactory.com/file/2tkowaekf9w9/n/DR\\_AS\\_2118.1-2016\\_CP\\_Automatic\\_fire\\_sprinkler\\_systems\\_-\\_General\\_systems.pdf](http://www.filefactory.com/file/2tkowaekf9w9/n/DR_AS_2118.1-2016_CP_Automatic_fire_sprinkler_systems_-_General_systems.pdf)

**DR AS 1897-2016 CP Fasteners - Electroplated coatings.pdf (0.15MB)**

[http://www.filefactory.com/file/ekqy1v2y9hx/n/DR\\_AS\\_1897-2016\\_CP\\_Fasteners\\_-\\_Electroplated\\_coatings.pdf](http://www.filefactory.com/file/ekqy1v2y9hx/n/DR_AS_1897-2016_CP_Fasteners_-_Electroplated_coatings.pdf)

**DR AS 1742.5-2016 Manual of uniform traffic control devices - Street name and community facility name signs.pdf (1.09MB)**

[http://www.filefactory.com/file/2mpndhxxq2ooz/n/DR\\_AS\\_1742.5-2016\\_Manual\\_of\\_uniform\\_traffic\\_control\\_devices\\_-\\_Street\\_name\\_and\\_community\\_facility\\_name\\_signs.pdf](http://www.filefactory.com/file/2mpndhxxq2ooz/n/DR_AS_1742.5-2016_Manual_of_uniform_traffic_control_devices_-_Street_name_and_community_facility_name_signs.pdf)

**DR AS 1141.36-2016 Methods for sampling and testing aggregates - Sulfur in metallurgical slag crushed rock or.pdf (0.21MB)**

[http://www.filefactory.com/file/4u0b6sb5xe45/n/DR\\_AS\\_1141.36-2016\\_Methods\\_for\\_sampling\\_and\\_testing\\_aggregates\\_-\\_Sulfur\\_in\\_metallurgical\\_slag\\_crushed\\_rock\\_or.pdf](http://www.filefactory.com/file/4u0b6sb5xe45/n/DR_AS_1141.36-2016_Methods_for_sampling_and_testing_aggregates_-_Sulfur_in_metallurgical_slag_crushed_rock_or.pdf)

## **BUILDING ELECTRICAL SPECIFICATIONS**

**(collected & contributed by Dr Kyaw Naing)**

The following link is my view on which area of Myanmar Consumer Electrical Installation System needs the codes, standards & specification by comparing the current Myanmar Electricity Regulations with Australian Electrical Wiring Rule.

<http://highlightcomputer.com/AS3000ComparedwithMyanmarElect...>

References of Australian Electrical Wiring Rule

AS3000

<http://www.mongroupsdney1.com/AS3000.pdf>

AS3008

<http://www.mongroupsdney1.com/AS3008.pdf>

NSW Electrical Services Rule

<http://www.mongroupsdney1.com/NSW%20Electrical%20Service%20...>

Myanmar Electricity Regulation

[http://www.filefactory.com/.../Electrical\\_Regulations\\_Myanmar...](http://www.filefactory.com/.../Electrical_Regulations_Myanmar...)

Maximum Demand Calculation & Cable Selection—Thanlyin TU- 5 Jan 2016 Lecture

[www.mongroupsdney1.com/CableselectionPPT.pdf](http://www.mongroupsdney1.com/CableselectionPPT.pdf)

The followings are drafted Australian standards for various engineering applications. Although they are the drafts, they are modified version of the useful standards & can be useful as references for third world countries applications including Myanmar.

DR SA TS ISO 80004.4-2016 CP Nanotechnologies - Vocabulary - Nanostructured materials.pdf (0.15MB)

[http://www.filefactory.com/file/1fumlenq1r0b/n/DR\\_SA\\_TS\\_ISO\\_80004.4-2016\\_CP\\_Nanotechnologies\\_-\\_Vocabulary\\_-\\_Nanostructured\\_materials.pdf](http://www.filefactory.com/file/1fumlenq1r0b/n/DR_SA_TS_ISO_80004.4-2016_CP_Nanotechnologies_-_Vocabulary_-_Nanostructured_materials.pdf)

DR SA TS ISO 80004.2-2016 CP Nanotechnologies - Vocabulary - Nano-objects.pdf (0.15MB)

[http://www.filefactory.com/file/55urv6bwbrfl/n/DR\\_SA\\_TS\\_ISO\\_80004.2-2016\\_CP\\_Nanotechnologies\\_-\\_Vocabulary\\_-\\_Nano-objects.pdf](http://www.filefactory.com/file/55urv6bwbrfl/n/DR_SA_TS_ISO_80004.2-2016_CP_Nanotechnologies_-_Vocabulary_-_Nano-objects.pdf)

DR SA TS ISO 80004.1-2016 CP Nanotechnologies - Vocabulary - Core terms.pdf (0.15MB)

[http://www.filefactory.com/file/2n25snb15ed9/n/DR\\_SA\\_TS\\_ISO\\_80004.1-2016\\_CP\\_Nanotechnologies\\_-\\_Vocabulary\\_-\\_Core\\_terms.pdf](http://www.filefactory.com/file/2n25snb15ed9/n/DR_SA_TS_ISO_80004.1-2016_CP_Nanotechnologies_-_Vocabulary_-_Core_terms.pdf)

**DR AS NZS ISO 30302-2016 Information and documentation - Management systems for recordkeeping - Guidelines fo.pdf (0.29MB)**

[http://www.filefactory.com/file/atv367698zr/n/DR\\_AS\\_NZS\\_ISO\\_30302-2016\\_Information\\_and\\_documentation\\_-\\_Management\\_systems\\_for\\_recordkeeping\\_-\\_Guidelines\\_fo.pdf](http://www.filefactory.com/file/atv367698zr/n/DR_AS_NZS_ISO_30302-2016_Information_and_documentation_-_Management_systems_for_recordkeeping_-_Guidelines_fo.pdf)

**DR AS NZS ISO 14001-2016 CP Environmental management systems - Requirements with guidance for use.pdf (0.23MB)**

[http://www.filefactory.com/file/3wgrae2ygc3r/n/DR\\_AS\\_NZS\\_ISO\\_14001-2016\\_CP\\_Environmental\\_management\\_systems\\_-\\_Requirements\\_with\\_guidance\\_for\\_use.pdf](http://www.filefactory.com/file/3wgrae2ygc3r/n/DR_AS_NZS_ISO_14001-2016_CP_Environmental_management_systems_-_Requirements_with_guidance_for_use.pdf)

**DR AS NZS IEC 62740-2016 CP Root cause analysis (RCA).pdf (0.22MB)**

[http://www.filefactory.com/file/3uts6rqz2boz/n/DR\\_AS\\_NZS\\_IEC\\_62740-2016\\_CP\\_Root\\_cause\\_analysis\\_\(RCA\).pdf](http://www.filefactory.com/file/3uts6rqz2boz/n/DR_AS_NZS_IEC_62740-2016_CP_Root_cause_analysis_(RCA).pdf)

**DR AS NZS 5131-2016 Structural steelwork - Fabrication and erection.pdf (8.68MB)**

[http://www.filefactory.com/file/2933reftj2wl/n/DR\\_AS\\_NZS\\_5131-2016\\_Structural\\_steelwork\\_-\\_Fabrication\\_and\\_erection.pdf](http://www.filefactory.com/file/2933reftj2wl/n/DR_AS_NZS_5131-2016_Structural_steelwork_-_Fabrication_and_erection.pdf)

**DR AS NZS 5263.0-2016 Gas appliances - General requirements.pdf (2.45MB)**

[http://www.filefactory.com/file/ogst17oviu3/n/DR\\_AS\\_NZS\\_5263.0-2016\\_Gas\\_appliances\\_-\\_General\\_requirements.pdf](http://www.filefactory.com/file/ogst17oviu3/n/DR_AS_NZS_5263.0-2016_Gas_appliances_-_General_requirements.pdf)

**DR AS NZS 5149.4-2016 CP Refrigerating systems and heat pumps - Safety and environmental requirements - Opera.pdf (0.25MB)**

[http://www.filefactory.com/file/1p4ir9ynu3t3/n/DR\\_AS\\_NZS\\_5149.4-2016\\_CP\\_Refrigerating\\_systems\\_and\\_heat\\_pumps\\_-\\_Safety\\_and\\_environmental\\_requirements\\_-\\_Opera.pdf](http://www.filefactory.com/file/1p4ir9ynu3t3/n/DR_AS_NZS_5149.4-2016_CP_Refrigerating_systems_and_heat_pumps_-_Safety_and_environmental_requirements_-_Opera.pdf)

**DR AS NZS 5149.3-2016 CP Refrigerating systems and heat pumps - Safety and environmental requirements - Inst.pdf (0.26MB)**

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[http://www.filefactory.com/file/592684csosx7/n/DR\\_AS\\_NZS\\_4420.1-2016\\_Windows\\_-\\_Methods\\_of\\_test\\_-\\_Test\\_sequence\\_sampling\\_and\\_test\\_methods.pdf](http://www.filefactory.com/file/592684csosx7/n/DR_AS_NZS_4420.1-2016_Windows_-_Methods_of_test_-_Test_sequence_sampling_and_test_methods.pdf)

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[http://www.filefactory.com/file/rfu05cnnzu1/n/DR\\_AS\\_NZS\\_4441-2016\\_Oriented\\_PVC\\_\(PVC-O\)\\_pipes\\_for\\_pressure\\_applications\\_\(ISO\\_16422-2014\\_MOD\).pdf](http://www.filefactory.com/file/rfu05cnnzu1/n/DR_AS_NZS_4441-2016_Oriented_PVC_(PVC-O)_pipes_for_pressure_applications_(ISO_16422-2014_MOD).pdf)

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**DR AS NZS 3112-2016 Approval and test specification - Plugs and socket-outlets.pdf (2.35MB)**

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**DR AS NZS 2566.1-1998 Amd 1-2016 Buried flexible pipelines - Structural design.pdf (0.34MB)**

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**DR AS NZS 2243.3-2016 Safety in laboratories - Microbiological safety and containment.pdf (1.64MB)**

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**DR AS NZS 1576.2-2016 Scaffolding - Couplers and accessories.pdf (1.19MB)**

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**DR AS ISO 21500-2016 CP Guidance on project management.pdf (0.15MB)**

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**DR AS 1742.12-2016 Manual of uniform traffic control devices - Bus transit tram and truck lanes.pdf (1.09MB)**

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Comprehensive list of online resources for electrical engineers from blogs to forums; tutorial sites and wikis.
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Australian Standards are distributed by SAI Global
- [\*\*International Standards - IHS Australia\*\*](#)  
Through our partnership with IHS Australia, members receive 5% discount when purchasing either a hard or electronic pay-per-view copy of international standards.
- [\*\*Google Scholar\*\*](#)  
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This site covers free, full-text, quality controlled scientific and scholarly journals
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A bibliographic database of citations to the agricultural literature created by the National Agricultural Library and its cooperators.
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- [\*\*Free Medical Journals\*\*](#)  
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- [\*\*Access the StandardsWatch\*\*](#)

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This Portal is a tool for engineers to access information on engineering sustainability. The information ranges from regulatory and standards, through to emerging think pieces on the topic. The information is organised by industry and, within that, by category. In all cases, links connect with sites which are authorities in their field.

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Enrolment Form  
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Enrolment Form  
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- Day 2 Session 2(4)-BE course competencies  
<http://youtu.be/TLAsivfd69o>
- Day 2 Session 2(5)-BE Curriculum Objectives & Learning outcomes samples Part 1)  
<http://youtu.be/C02lhMzcO8k>
- Day 2 Session 2(6)- Day 2 Session 2(5)-BE Curriculum Objectives & Learning outcomes samples Part (2)  
<http://youtu.be/iUggt-eG6N4>
- Day 3 Session 1(1) Motivation of adult learning  
<http://youtu.be/fX1E8GBKJKo>
- Day 3 Session 2(2) Course evaluation  
[http://youtu.be/plfr\\_KaAHDQ](http://youtu.be/plfr_KaAHDQ)
- Day 3 Session 1(3)-Experimental Learning  
<http://youtu.be/NxfczPA1J1l>
- Day 3 Session 1(4)-Relating Learning Outcomes to Program Objectives  
<http://youtu.be/cCkgLOkKaKY>
- Day 4 Session 2-General Knowledge related to overseas programs  
<http://youtu.be/qI9IYGpWazM>
- Day 5 Session 1A- Approach to various learning modes in VET  
<http://youtu.be/NVgAAT7Muv0>
- Day 5 Session 2A- Preparing vocational teaching portfolios  
<http://youtu.be/cc-xLKjz3J8>
- Day 6 Session 1A Developing the assessment strategies in VET  
<http://youtu.be/qwNZHPBn6DQ>
- Day 6 Session 2+3 Preparing the sample assessment activities  
[http://youtu.be/-FiehP1Lb\\_E](http://youtu.be/-FiehP1Lb_E)
- Day 7 Session 2+3 Integration of Learning Technology in Teaching & Learning Part 1  
[http://youtu.be/bV\\_CJdY7fs0](http://youtu.be/bV_CJdY7fs0)
- Day 8 Session 1 Technology in Classroom  
<http://youtu.be/rzLQq6D6-OU>
- Day 8 Session 2+3 Integration of Learning Technology in Teaching & Learning Part 2  
<http://youtu.be/Katbr81IPnk>
- Day 9 Session 2+3 Preparing the documents to comply with Myanmar Engineering Council Requirement  
<http://youtu.be/vKGOB9ZBKAU>
- Day 10 Session 1 Learning Environment  
<http://youtu.be/3Lzk27pAQBk>
- Day 10 Session 2-Change Management  
<http://youtu.be/ynkcUcKr8tQ>

## Dr Sam Man Keong's Slides Youtube Videos, Presented by Dr Kyaw Naing

Slide 1-Day 2 Session 3

UK & Singapore PE Assessment Systems

[https://youtu.be/88NnM\\_GGGCI](https://youtu.be/88NnM_GGGCI)

Slide 2-Day 3 Session 2

UK CEng Competencies + Singapore PE Engineering Fundamental & Professional Practice Examinations



[https://youtu.be/\\_29CE4YciAs](https://youtu.be/_29CE4YciAs)

## **POWER POINTS**

### **POWER POINT**

Day1Session3.ppt (0.28MB)

<http://www.mongroupsydney1.com/Day1Session3.ppt>

### **AUDIO**

<http://yourlisten.com/Kyawnaing2524/day-1-session-3>

### **POWER POINT**

Day2Session2.ppt (10.52MB)

<http://www.mongroupsydney1.com/Day2Session2.ppt>

### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-2-session-2>

### **POWER POINT**

Day3Session1.ppt (3.26MB)

<http://www.mongroupsydney1.com/Day3Session1.ppt>

### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-3-session-1>

### **POWER POINT**

Day 4 Session 2

<http://www.mongroupsydney1.com/Day4Session2.ppt>

### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-4-session-2>

### **POWER POINT**

Day5Session1.ppt (20.26MB)

<http://www.mongroupsydney1.com/Day5Session1.ppt>

### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-5-session-1b>

### **POWER POINT**

Day5Session2.ppt (2.54MB)

<http://www.mongroupsydney1.com/Day5Session2.ppt>

### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-5-session-23>

### **POWER POINT**

Day6Session1.ppt (6.34MB)

<http://www.mongroupsydney1.com/Day6Session1.ppt>

### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-6-session-1>

### **POWER POINT**

Day6Session2.ppt (0.56MB)

[www.iqytechnicalcollege.com/Day6Session2.ppt](http://www.iqytechnicalcollege.com/Day6Session2.ppt)

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### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-6-session-23>

### **POWER POINT**

Day6Session2+3.ppt (4.63MB)

<http://www.mongroupsydney1.com/Day6Session23.ppt>

### **AUDIO**

<http://yourlisten.com/Kyaw.Naing/day-6-session-23>

### **POWER POINT**

Day7Session2+3Mod.pdf (42.53MB)

<http://www.mongroupsydney1.com/Day7Session23Mod.pdf>

#### AUDIO

<http://yourlisten.com/Kyaw.Naing/day-7-session23>

#### POWER POINT

Day8Session1.ppt (1.15MB)

<http://www.mongroupsydney1.com/Day8Session1.ppt>

#### AUDIO

<http://yourlisten.com/Kyaw.Naing/day-8-session-1a>

#### POWER POINT

Day8Session2+3.pdf (17.25MB)

<http://www.mongroupsydney1.com/Day8Session2+3.pdf>

#### AUDIO

<http://yourlisten.com/Kyaw.Naing/day-8-session-23>

#### POWER POINT

Day9Session2+3.ppt (0.51MB)

<http://www.mongroupsydney1.com/Day9Session23.ppt>

#### AUDIO

<http://yourlisten.com/Kyaw.Naing/day-9-session-23>

#### POWER POINT

Day10Session1.ppt (11.78MB)

<http://www.mongroupsydney1.com/Day10Session1.ppt>

#### AUDIO

<http://yourlisten.com/Kyaw.Naing/day-10-session-1>

#### POWER POINT

Day10Session2+3.ppt (0.57MB)

<http://www.mongroupsydney1.com/Day10Session23.ppt>

#### AUDIO

<http://yourlisten.com/Kyaw.Naing/day-10-session-23>

### **Diploma in Engineering Education Resources Download Links**

ENGINEERING EDUCATION RESOURCES DOWNLOAD LINK 1

[www.highlightcomputer.com/dipenggeddownload1.htm](http://www.highlightcomputer.com/dipenggeddownload1.htm)

ENGINEERING EDUCATION RESOURCES DOWNLOAD LINK 2

[www.highlightcomputer.com/dipenggeddownload2.htm](http://www.highlightcomputer.com/dipenggeddownload2.htm)

SAMPLE ANSWERS FOR LEVEL 1 & 2 ASSIGNMENTS

[www.highlightcomputer.com/DipEnggEdL1L2SampleAnswers.htm](http://www.highlightcomputer.com/DipEnggEdL1L2SampleAnswers.htm)

ISO Audit Manual

[www.mongroupsydney1.com/22 Aug 2016-ISO Audit Kit Preparation Kit 2016\\_V4Mod.pdf](http://www.mongroupsydney1.com/22%20Aug%202016-ISO%20Audit%20Kit%20Preparation%20Kit%202016_V4Mod.pdf)

ISO 9000 Audit Evidences

[www.highlightcomputer.com/iso9000evidenceguide.htm](http://www.highlightcomputer.com/iso9000evidenceguide.htm)

# IQY- St Clements Education Group

[www.highlightcomputer.com](http://www.highlightcomputer.com)

Electronic Educational Information Service

- Engineering
- Information Technology
- Vocational Education
- Business Management
- Teacher Education

Online Lessons-

[www.iqytechnicalcollege.com](http://www.iqytechnicalcollege.com)

Other site

<http://www.highlightcomputer.com/iqy.htm>

# IQY TECHNICAL COLLEGE

[www.iqytechnicalcollege.com](http://www.iqytechnicalcollege.com)

<b>IQY technical College Courses , Programs and Contacts</b> <a href="http://www.highlightcomputer.com">www.highlightcomputer.com</a>	<b>Myanmar Vocational Training Certificate</b> <a href="http://www.highlightcomputer.com/mvvc.htm">www.highlightcomputer.com/mvvc.htm</a>
<b><a href="#">Online Enrolment Forms for Engineering/ IT / Management Courses</a></b>	<b>Renewable Energy Program</b>
<b>Technological Universities Study Support Resources Download</b>	<b>Job Search Assistance Sites</b>
<b><a href="#">Engineering Trades Practicals</a></b>	<b>Myanmar Engineering Teachers Support &amp; Engineering Education</b>
<b><a href="#">Myanmar Technological Universities Websites</a></b>	<b><a href="#">Myanmar Buddhist and Voluntary Schools (Year 9 to 12) Support Programs</a></b>
<b><a href="#">Engineers Union Support Programs</a></b>	<b><a href="#">Engineering Standards (Australian and International References)</a></b>
<b>Australian Electrical Engineering Programs</b>	<b>Professional Engineer Support Program</b>

# The Institute of Renewable Energy EnGineErs (IREE)

## Promoting Myanmar Engineering Profession

IQY Technical College , authorized training centre of Singapore Institute of Engineering Technologists establishes the first Renewable Energy Engineering academic course in Myanmar.

There have been some renewable energy contents which are included in engineering & applied science courses in Myanmar, but pure Renewable Energy Engineering Diploma & Degree courses have not been developed in Myanmar . Even overseas, Renewable Energy Engineering is new engineering discipline.

The course is designed as Professional Diploma in Renewable Energy Engineering in which pure renewable energy engineering subjects are included.

The entry requirement for the course is BE/BTech/AGTI or other engineering diplomas in any discipline. The course materials are based on overseas renewable energy engineering programs and the entire course can be attended by online mode. Currently free study is provided for online mode.

The course contents can be viewed at <http://www.highlightcomputer.com/re.pdf> & the plan has been made for Bachelor degree level.

The Institution of Professional Engineer, Myanmar establishes the following engineering registration system for Renewable Energy Engineers in Myanmar and we are the first organization in Myanmar to introduce such Renewable Energy Engineer registration system in Myanmar.

- **Registered Engineer (Renewable Energy )—RE(RE)**  
BE/BTech/AGTI in any discipline PLUS 2 to 7 Years experience in respective discipline PLUS Completion of Diploma/ Professional Diploma in Renewable Energy Engineering.
- **Registered Senior Engineer (Renewable Energy )—RSE(RE)**  
BE/BTech/AGTI in any discipline PLUS over 7 Years experience in respective discipline PLUS Completion of Diploma/ Professional Diploma in Renewable Energy Engineering.
- **Professional Engineer (Renewable Energy )—PE(RE)**  
BE/BTech/AGTI in any discipline PLUS over 7 Years experience in respective discipline PLUS Completion of Diploma/ Professional Diploma in Renewable Energy Engineering PLUS Engineering Management Study/ Experiences PLUS Submission of Renewable Energy Project.
- BE/BTech/MSc/ME degrees in renewable energy will also be considered.

## List of Members of The Institute of Renewable Energy Engineers (IREE)

[www.highlightcomputer.com/registrants3.htm](http://www.highlightcomputer.com/registrants3.htm)

## List of Registered Engineers of The Institute of Renewable Energy Engineers (IREE)

[www.highlightcomputer.com/registrants.htm](http://www.highlightcomputer.com/registrants.htm)

## MYANMAR VOCATIONAL TRAINING COLLABORATION

Member of IQY Education Group & Affiliation with  
The Society of Professional Engineers (UK and International)

[www.highlightcomputer.com/mvvc.htm](http://www.highlightcomputer.com/mvvc.htm)

**Myanmar Vocational Training Certificate & Humanities Diploma**

<http://www.highlightcomputer.com/mvvc.htm>

### CAREER FLOW DIAGRAM

### CLASSIFICATIONS OF WORKERS & CAREER TRAINING VOCATIONAL COURSES (HTML)

### CLASSIFICATIONS OF WORKERS & CAREER TRAINING VOCATIONAL COURSES (PDF)

### VOCATIONAL TRAINING COURSES RESOURCES

### VOCATIONAL TRAINING COURSES LESSONS

The Society of Professional Engineers (UK and International) Membership Programs

[IQY Technical College Humanities Study Programs](#)

[www.highlightcomputer.com/HumanitiesCoursesOutline.pdf](http://www.highlightcomputer.com/HumanitiesCoursesOutline.pdf)

### VOCATIONAL TRAINING COURSES & HUMANITIES DIPLOMA ENROLMENT

[IQY Technical College Rural Development Engineering Program](#)

<http://www.highlightcomputer.com/adrde.pdf>

### ONLINE ENROLMENT LINK

<https://www.emailmeform.com/builder/form/PXcY6O9gHaafufMf52exs>

### Vocational Certification Format

### **Face Book Page**

Until June 2019

<https://www.facebook.com/Myanmar-Vocational-Training-Collaboration-144787046030808/>

From June 2019

**Myanmar Vocational Training Collaboration and Alternative Education**

<https://www.facebook.com/Myanmar-Vocational-Training-Collaboration-and-Alternative-Education-2101086633323339/>

### **Face Book Group**

<https://www.facebook.com/groups/461195434452052/>

**Myanmar Engineering Jobs**

<https://www.facebook.com/groups/2128693697196512/>

# MYANMAR BUDDHIST AND VOLUNTARY SCHOOLS SUPPORT WEBSITE

This website contains the contact and Year 9 to 12 Teaching Support Lessons for Myanmar Buddhist and Voluntary Schools

<a href="#"><u>Contact Addresses of voluntary schools</u></a>	<a href="#"><u>Year 9 to12 Study Support</u></a>	<a href="#"><u>Support for volunteer teachers</u></a>	<a href="#"><u>Advertisement</u></a>	<a href="#"><u>The list of higher education institutions which provide voluntary education to needy students of Myanmar</u></a>	<a href="#"><u>Myanmar Vocational Training Certificate</u></a>
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# Myanmar Professional Engineers Register (The Institution of Professional Engineers-Myanmar)

[www.highlightcomputer.com/mper.htm](http://www.highlightcomputer.com/mper.htm)

Myanmar Engineering Council Law Changing Campaign

[www.highlightcomputer.com/mengclaw.htm](http://www.highlightcomputer.com/mengclaw.htm)

## PROFESSIONAL ENGINEER SUPPORT WEBSITE OF IQY TECHNICAL COLLEGE OF HIGHLIGHT COMPUTER GROUP

(if the direct download link is unavailable, the resources can be found & downloaded from the download centre)

[www.highlightcomputer.com/pesupport.htm](http://www.highlightcomputer.com/pesupport.htm)

[www.highlightcomputer.com](http://www.highlightcomputer.com)

A Professional Engineer needs wide knowledge of theory and practical applications of engineering. The knowledge is not limited to a particular course.

This Professional Engineer Support Website includes Engineering Job Competencies, Technician+ Technologist Level, Theoretical Knowledge requirement for Professional Engineer, Undergraduate Level Theoretical Knowledge requirement for Professional Engineer, Post graduate Level Theoretical Knowledge requirement for Professional Engineer, Practical Knowledge requirement for Professional Engineer ,Professional Engineer Postgraduate Competency Development (Electrical & Civil),Knowledge refreshing by watching lesson videos, Youtube Engineering Lessons ,MP4 Engineering Lessons ,Engineering Rules/Regulation/Safety Knowledge(Electrical Safety, Construction site safety & OHS, Explosion Protection & safety etc are included & the reference materials are referred from relevant Australian Industrial Safety Authorities), Engineering Competency Demonstration Report and Information on Professional Engineer Registration around the world. .

The purpose is to provide the one stop shop for the engineers who seek PE/RSE registration in Myanmar as well as ASEAN , UK, USA, Australia etc to get the information as well as refreshing the theoretical studies and practical knowledge.

## Engineering Job Competencies

[IQY Technical College Professional Engineer/Management Professional & Information Technology Professional Skills Training](#)

[Engineers Australia Professional Engineer, Engineering Technologists & Engineering Associate Competencies References](#)

### Part 1-ENGINEERING FUNDAMENTAL

[Technician+ Technologist Level Theoretical Knowledge requirement for Professional Engineer](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 1-Online Lessons\)](#)

[Undergraduate Level Theoretical Knowledge requirement for Professional Engineer \(Part 2-Reference Resources\)](#)

[Post graduate Level Theoretical Knowledge requirement for Professional Engineer](#)



Practical Knowledge requirement for Professional Engineer

Practical Knowledge requirement for Professional Engineer

## **Part 2-PROFESSIONAL ENGINEER COMPETENCY DEVELOPMENT**

Electrical    Electronics    Civil

The resources+ handbooks can only be provided in DVD disks

**Refresh your knowledge by watching lesson videos**

Youtube Engineering Lessons by Program Leader Engineering-  
**MIEAust, RPEQ,FSIET**

MP4 Engineering Lessons by Program Leader Engineering-  
**MIEAust, RPEQ, FSIET**

Youtube Engineering Lessons (Advanced Diploma of Electrical Engineering/Technology courses in Australia)

by Program Leader Engineering- **MIEAust, RPEQ, FSIET**

## **Part 3-ENGINEERING RULES/REGULATION/SAFETY**

Engineering Rules/Regulation/Safety Knowledge

Engineering Competency Demonstration Report

Competency Elements of Stage 1 Professional Engineer (Australia)

Electro-technology Competency Development

Electro-technology Competency Development (Electronics)

## **Part 4-PROFESSIONAL ENGINEER REGISTRATION**

Professional Engineer Registration around the world

Undergraduate Level Theoretical Knowledge requirement for Professional Engineer

## **Part 5-PROFESSIONAL ENGINEER RESOURCES DOWNLOAD CENTRE**

**Overall**

**[www.highlightcomputer.com/downloadcentre.htm](http://www.highlightcomputer.com/downloadcentre.htm)**

**Electrical+ Building Services**

**[www.highlightcomputer.com/PEEE.htm](http://www.highlightcomputer.com/PEEE.htm)**

**Electronics**

**[www.highlightcomputer.com/PEEC.htm](http://www.highlightcomputer.com/PEEC.htm)**

**Civil**

**[www.highlightcomputer.com/PECivilCombined.htm](http://www.highlightcomputer.com/PECivilCombined.htm)**

**Bachelor of Engineering (Civil)**

<http://www.highlightcomputer.com/CivilDegreeInstruction.pdf>

<http://www.highlightcomputer.com/CivilDegreeInstruction1.pdf>

**Video**

**Click Common Engineering Degree Video**

**Click BE Civil Instruction Video**

**Bachelor of Engineering (Electrical)**

<http://www.highlightcomputer.com/ElectricalDegreeInstruction.pdf>

<http://www.highlightcomputer.com/ElectricalDegreeInstruction1.pdf>

#### Video

**Click** [Common Engineering Degree Video](#)

**Click** [BE \(Electrical\) Instruction Video](#)

### Bachelor of Engineering (Mechanical)

<http://www.highlightcomputer.com/MechanicalDegreeInstruction.pdf>

<http://www.highlightcomputer.com/MechanicalDegreeInstruction1.pdf>

#### Video

**Click** [Common Engineering Degree Video](#)

**Click** [BE \(Mechanical\) Instruction Video](#)

Technician+ Technologist Level Theoretical Knowledge requirement for Professional Engineer

### Certificate/Diploma/Advanced Diploma (Civil Engineering)

<http://www.highlightcomputer.com/CivilDiplomaInstruction.pdf>

#### Video

**Click** [Civil Engineering Diploma Instruction Video](#)

### Certificate/Diploma/Advanced Diploma (Electrical Engineering)

<http://www.highlightcomputer.com/ElectricalDiplomaInstruction.pdf>

#### Video

**Click** [Electrical Engineering Diploma Instruction Video](#)

### Certificate/Diploma/Advanced Diploma (Mechanical Engineering)

<http://www.highlightcomputer.com/MechanicalDiplomaInstruction.pdf>

#### Video

**Click** [Mechanical Engineering Diploma Instruction Video](#)

Post graduate Level Theoretical + Practical+ Management Knowledge requirement for Professional Engineer

**Graduate Diploma & Master of Engineering Practice (Electrical/Civil/ Mechanical) for Graduate Engineers**

(72115/73315/72515/72315/72415/82115/82215/82315/82415/)

<http://www.highlightcomputer.com/GraduateDiplomaEngineeringPracticeOutline.pdf>

### **GRADUATE ENGINEER TRAINING PROGRAM**

[www.mongroupsytdney1.com/GraduateCapstone.pdf](http://www.mongroupsytdney1.com/GraduateCapstone.pdf)

[www.mongroupsytdney1.com/AdditionalCapstoneTextBooks.pdf](http://www.mongroupsytdney1.com/AdditionalCapstoneTextBooks.pdf)

### **PROFESSIONAL ENGINEER REGULATIONS**

[www.mongroupsytdney1.com/PEngReg.pdf](http://www.mongroupsytdney1.com/PEngReg.pdf)

### **PROPOSED PE ROUTE**

[www.mongroupsytdney1.com/PERSEProposalBasedonAccreditationModel.pdf](http://www.mongroupsytdney1.com/PERSEProposalBasedonAccreditationModel.pdf)

## **PROPOSED PE ROUTE EXPLANATION**

[www.mongroupsydneyn1.com/PERSEFlowDiagramExplanation.pdf](http://www.mongroupsydneyn1.com/PERSEFlowDiagramExplanation.pdf)

## **PROPOSED PE REGISTRATION PROCESS**

[www.mongroupsydneyn1.com/MyanmarEngineerRegistrationRulesProvision.pdf](http://www.mongroupsydneyn1.com/MyanmarEngineerRegistrationRulesProvision.pdf)

## **REVIEW OF ENGINEER LAW**

[www.mongroupsydneyn1.com/MEngCLawsPossibleWaystoimplementMod.pdf](http://www.mongroupsydneyn1.com/MEngCLawsPossibleWaystoimplementMod.pdf)

## **MYANMAR VERSION**

[www.mongroupsydneyn1.com/MEngCLawAnalysisMyanmarVersionTyped.pdf](http://www.mongroupsydneyn1.com/MEngCLawAnalysisMyanmarVersionTyped.pdf)

[www.mongroupsydneyn1.com/RegistraionSuggestionDrKyawNaing.pdf](http://www.mongroupsydneyn1.com/RegistraionSuggestionDrKyawNaing.pdf)

## **Engineering Rules/Regulation/Safety Knowledge**

## **Explosion Protection**

### **PROTECTION UNITS**

Click [HERE](#) to access the references for explosion protection

## **Electrical Safety**

**Electrician Licensing Requirements.zip**

[Stage 1 Part 3.zip](#)

[http://www.filefactory.com/file/c0cb8f5/n/Stage\\_1\\_Part\\_3.zip](http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip)

**Substation Entry.zip**

[Stage 1 Part 5.zip](#)

[http://www.filefactory.com/file/c0cb9b3/n/Stage\\_1\\_Part\\_5.zip](http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip)

**Construction Electrical Safety.zip**

[Stage 1 Part 1.zip](#)

[http://www.filefactory.com/file/c0cb8ab/n/Stage\\_1\\_Part\\_1.zip](http://www.filefactory.com/file/c0cb8ab/n/Stage_1_Part_1.zip)

**Inservice Testing.zip**

[Stage 1 Part 4.zip](#)

[http://www.filefactory.com/file/c0cc1cd/n/Stage\\_1\\_Part\\_4.zip](http://www.filefactory.com/file/c0cc1cd/n/Stage_1_Part_4.zip)

**NREL\_Disconnect\_Reconnect.zip**

[Stage 1 Part 5.zip](#)

[http://www.filefactory.com/file/c0cb9b3/n/Stage\\_1\\_Part\\_5.zip](http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip)

**Electrical\_safe\_working.zip**

[Stage 1 Part 3.zip](#)

[http://www.filefactory.com/file/c0cb8f5/n/Stage\\_1\\_Part\\_3.zip](http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip)

## **Occupational Health & Safety**

**OHS Workbook.zip**

[Stage 1 Part 5.zip](#)

[http://www.filefactory.com/file/c0cb9b3/n/Stage\\_1\\_Part\\_5.zip](http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip)

## **Electrical Risk Assessment**

[Project Risk Management References](#)

[Report Writing](#)

## **Post graduate Level Theoretical Knowledge requirement for Professional Engineer**

[IOY Masters Degree \(M Mat+ ME \(EE.CE.ME\)+M App Sc \(IT\)+MSc \(RE\)+ Associate Degree in RE+ BE \(Civil+ Mechanical\) Courses Learning Support Website](#)

[Graduate Diploma of Engineering Practice \(Mechanical\) Course Outline](#)

### **Course Notes**

[http://www.filefactory.com/file/21fkobz76fvj/Graduate\\_Diploma%20in%20Mechanical%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/21fkobz76fvj/Graduate_Diploma%20in%20Mechanical%20Engineering%20Course%20Work.pdf)

[Graduate Diploma of Engineering Practice \(Civil\) Course Outline](#)

### **Course Notes**

[http://www.filefactory.com/file/21ifsjw6w873/Graduate\\_Diploma%20in%20Civil%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/21ifsjw6w873/Graduate_Diploma%20in%20Civil%20Engineering%20Course%20Work.pdf)

**Graduate Diploma of Engineering (Electrical+Electronics) Course Outline**

**Course Notes**

[http://www.filefactory.com/file/70g9yl2t4ogt/Graduate\\_Diploma%20in%20Electrical%20Engineering%20Course%20Work.pdf](http://www.filefactory.com/file/70g9yl2t4ogt/Graduate_Diploma%20in%20Electrical%20Engineering%20Course%20Work.pdf)

## **Civil/Mechanical/Electrical Engineering Practical Courses for AGTI/BTech/BE students of Government Technical Colleges & Technological Universities**

If you find the question in Myanmar language, the lessons in Myanmar language for that question is also provided.

PC 1-Certificate in Bricklaying & Masonry

PC 2-Certificate in Plumbing

PC 3-Certificate in Building Construction

PC 4-Certificate in Gutter Construction

PC 5-Certificate in Fitting & Machining

PC 6-Certificate in Welding

PC 7-Certificate in Engine Operation & Basic Servicing

PC 8-Certificate in Air-conditioning & Refrigeration Basic Servicing

PC 9-Certificate in Electrical Wiring

PC 10-Certificate in Electrical Machine Winding

PC 11-Certificate in Electrical Power Wiring & Switch Gear Installation

(PC15/H102) Certificate in Basic Electronics & Telecommunication

PC16 Certificate in Rigging & Scaffolding

PC Practical Course (Level 2 for Engineering Technicians)

PC 12-Certificate in Surveying. Quantity Surveying & Estimating

PC 13-Certificate in Manufacturing Process Control & CNC

PC 14-Certificate in Building Energy Efficiency

# IQY TECHNICAL COLLEGE

## List of GRADUATES

### FIRST Convocation

## IQY Notice Board for Students

### Documents to attach with your award

## Course COMPLETION PROCESS

International+ Myanmar Recognition of IQY Graduates

IPEM Graduate Membership Certificate

IQY Technical College Registration in Australia

Singapore INSTITUTE of Engineering Technologists Recognition Diploma

Singapore INSTITUTE of Engineering Technologists Recognition ADVANCED Diploma

Singapore INSTITUTE of Engineering Technologists Recognition PROFESSIONAL Diploma

The SOCIETY OF PROFESSIONAL ENGINEERS UK AND INTERNATIONAL RECOGNITION

IQY Diploma +Advanced Diploma to Associate Degree/Bachelor of Work Studies Conversion free Online Program Enrolment

<https://www.emailmeform.com/builder/form/EXNv0c12x14ffkloc4cdu64l>

International Vocational Education and Training Association (IVETA-USA) Membership of IQY Technical College

IVETA Recognized Programs

## SINGAPORE INSTITUTE OF ENGINEERING TECHNOLOGISTS APPLICATION

### Fitness TRAINING

## New Generation MYANMAR Engineers

### **Employment Service**

**Resume preparation, engineering and technical / trade job entry preparation & practical training and reference services are available for Highlight Computer Group students.**

**The Institution of Professional Engineers Myanmar & Myanmar Professional Engineers Register**

**Engineering Job Competencies**

**Information Technology Job Competencies**

**Management Job Competencies**

## **APPRENTICES AND TRAINEES**

<http://www.iqytechnicalcollege.com/Form 189 IQY Apprentice & Trainee Program.htm>

<http://www.iqytechnicalcollege.com/Form 189 IQY Apprentice & Trainee Program.pdf>

**Engineers Job Group**

<https://www.facebook.com/groups/2128693697196512/>

[www.myanmarjobsdb.com/](http://www.myanmarjobsdb.com/)

[www.myanmarjobseekers.com](http://www.myanmarjobseekers.com)

<https://www.dreamjobmyanmar.com/>

<https://www.jobnet.com.mm/>

[www.myjobs.com.mm/](http://www.myjobs.com.mm/)

<http://career.com.mm/>

## **Jobs in Myanmar 2**

**Qualifications and competencies requirements for International Professional, Technical and Trade Jobs**

**Australia & New Zealand Classifications of Occupations Dictionary**

**Australia & New Zealand Classifications of Occupations Dictionary (Revised)**

**Highlight Computer Group, IQY Technical College provides the training to attain the competencies requirements for International Professional, Technical and Trade Jobs & not only limited to achievement of certificates.**

## **Singapore Jobs**

### **ASEAN Jobs**

### **Jobs in Middle East**

### **Jobs in Pacific Islands**

### **Australia and New Zealand Jobs**

### **Migration to Australia as Skilled Trade Person**

### **Migration to New Zealand as Skilled Trade Person**

### **Skilled Tradesman Training for migration includes the followings**

**\*Providing the skilled Training at Australian standard**

**\*Mentoring support during 3 to 4 years work experience gained locally**

**\*Providing the assistance to submit the Trade Skills Assessment**

## **AUSTRALIAN JOB SITES**

[www.jobsearch.gov.au/](http://www.jobsearch.gov.au/)

[www.seek.com.au/](http://www.seek.com.au/)

[www.careerone.com.au/](http://www.careerone.com.au/)

[www.jobsearch.com.au/](http://www.jobsearch.com.au/)

[www.mycareer.com.au/](http://www.mycareer.com.au/)

[www.theaustralian.com.au/careers](http://www.theaustralian.com.au/careers)

<https://www.jobbydoo-au.com>

[www.sydneytafe.edu.au/careersconnect](http://www.sydneytafe.edu.au/careersconnect)

## **JOB HERO**

## **Study System**

The students who enrol the program of study can download the study materials from the online links provided by the tutor, watch the teaching videos, view the class teaching records, listen to the explanation audio files, study the further learning materials and submit the assignments back to the tutor by e-mail attachments.

Upon successful completion of theoretical part, certification of competency for theory part is

issued by the tutor. The student can then follow the instructions for practical tasks that can be done by simulated online version application of softwares or purchase the locally available materials and perform the practical tasks and submit the evidences of practical tasks by photos and videos to the tutor. Upon successful completion of the practical tasks, the competency for the practical task is issued.

### **Further career**

Although the study program is not linked to the Australian accredited courses, the competencies of the training program which are set at up to Australian Advanced Diploma level acquired by the students can not only be utilized in the prospective workplaces but also can later be applied in the trade tests of Australian Vocational Assessment & Recognition Authorities to obtain the recognised trade certificates.

### **Deign of study materials**

The tutor who is also currently working as a vocational education teacher in Australia voluntarily arranges and prepares the learning materials for the benefits of Myanmar (Burmese) students who have faced the disruptions of their studies due to various circumstances. The materials are the same materials that are being utilized in Australian vocational education and training classes currently.

### **Requirement for enrolment**

No specific education level is set for eligibility to enrol the program but all study materials are prepared in English language. Appropriate proficiencies in reading and writing of English together with appropriate basic level of mathematical skill is required.

### **Contact**

The interested students should contact the online volunteer tutor at the following e-mail address:

**[iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)**

## **STUDENTS ACTIVITIES**



## Technological Universities & Colleges of Myanmar

[www.highlightcomputer.com/tu.htm](http://www.highlightcomputer.com/tu.htm)

### Yangon Technological University

<http://ytu.edu.mm/>

<https://www.facebook.com/YangonTechnologicalUniversity/>

### West Yangon Technological University

<https://www.facebook.com/pages/West-Yangon-Technological-University/111979295486156>

### Thanlyin Technological University

<http://ttu.edu.mm/>

[www.highlightcomputer.com/ttucurriculum.htm](http://www.highlightcomputer.com/ttucurriculum.htm)

<https://www.facebook.com/tuthanlyin>

### Hmawbi Technological University

<https://www.facebook.com/pages/Technological-University-Hmawbi/103756259662853>

### Mandalay Technological University

<http://www.tum.edu.mm/>

<https://www.facebook.com/pages/Mandalay-Technological-University/112819018729825>

### Technological University Shwebo/ Government Technical College

<http://www.classbase.com/Countries/Myanmar/Universities/Government-Technical-College-Shwebo-27486>

### Technological University Kyaukse

<https://www.facebook.com/pages/Kyaukse-Technological-University/139760606050871>

### Pyay Technological University

<https://www.facebook.com/pages/Pyay-Technological-University/108061192547400>

### Technological University Sagaing

<https://www.facebook.com/sagaingtechnologicaluniversitybarcamp/>

<http://www.barcampsagaingtu.org/>

<https://www.facebook.com/pages/Technological-UniversitySagaing/190913557588644>

### Technological University Yatanarpon Cyber City

<https://www.facebook.com/pages/University-of-TechnologyYatanarpon-Cyber-City/367763546640100>

### Technological University Magwe

<https://m.facebook.com/profile.php?id=113456448702979>

<https://www.facebook.com/pages/Government-Technological-University-Magway/520359251346814>

### Technological University Monywa

<https://www.facebook.com/pages/Technological-University-Monywa/110768552277801?rf=128799300473524>

### Technological University Taunggyi

<http://www.classbase.com/Countries/Myanmar/Universities/Technological-University-Taunggyi-27495>

[https://www.google.com.au/search?](https://www.google.com.au/search?q=Technological+University+Taunggyi&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjn5oeC8fbLAhUEJqYKHTg)

[q=Technological+University+Taunggyi&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjn5oeC8fbLAhUEJqYKHTg](https://www.google.com.au/search?q=Technological+University+Taunggyi&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjn5oeC8fbLAhUEJqYKHTg)

### Technological University Loikaw

[https://www.google.com.au/search?  
q=Technological+University+Taunggyi&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjn5oeC8fbLAhUFJqYKHTg](https://www.google.com.au/search?q=Technological+University+Taunggyi&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjn5oeC8fbLAhUFJqYKHTg)

<https://www.youtube.com/watch?v=MSrdYj5Y-20>

#### **Technological University Myeik**

[https://www.youtube.com/watch?v=xEG\\_tfYflx0](https://www.youtube.com/watch?v=xEG_tfYflx0)

<http://www.classbase.com/Countries/Myanmar/Universities/Technological-University-Myeik-27498>

#### **Technological University Sittway**

<https://www.facebook.com/pages/Technological-University-Sittwe/103395173049074>

[https://www.google.com.au/search?  
q=Technological+University+Sittwe&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwiS\\_O618vbLAhUiIaYKHbcyB](https://www.google.com.au/search?q=Technological+University+Sittwe&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwiS_O618vbLAhUiIaYKHbcyB)

#### **Technological University, Hinthada**

<https://www.facebook.com/pages/Hinthada-Technological-University/110535648966890>

#### **Technological University, Maubin**

<https://www.facebook.com/pages/Government-Technological-University-Maubin/112725108800097>

<https://www.youtube.com/watch?v=qpFAX3ZPn5U>

#### **Technological University, Pathein**

<https://www.facebook.com/Pathein-Technological-University-271748612897850/>

[https://www.google.com.au/search?  
q=Technological+University,+Pathein&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwiB79qA9PbLAhUhKaYKHb](https://www.google.com.au/search?q=Technological+University,+Pathein&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwiB79qA9PbLAhUhKaYKHb)

#### **Technological University, Taungoo**

[https://www.google.com.au/search?  
q=Technological+University,+Taungoo&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwi66ovE9PbLAhVoHKYKH](https://www.google.com.au/search?q=Technological+University,+Taungoo&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwi66ovE9PbLAhVoHKYKH)

<https://www.youtube.com/watch?v=R4AejEzCUcg>

#### **Technological University, Bhamo**

[http://tubanmaw.most.gov.mm/?page\\_id=880](http://tubanmaw.most.gov.mm/?page_id=880)

#### **Technological University, Myitkyina**

[https://www.google.com.au/search?  
q=Technological+University,+Myitkyina&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjXopW-9fbLAhWkg6YKHbETA6EQsAQIMw](https://www.google.com.au/search?q=Technological+University,+Myitkyina&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjXopW-9fbLAhWkg6YKHbETA6EQsAQIMw)

#### **Technological University, Hpa-An**

[https://www.google.com.au/search?q=Technological+University,+Hpa-  
An&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwi14e\\_p9fbLAhUHFpQKHfcTBVoQsAQINQ](https://www.google.com.au/search?q=Technological+University,+Hpa-An&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwi14e_p9fbLAhUHFpQKHfcTBVoQsAQINQ)

[https://www.youtube.com/watch?v=rw6Mqpl\\_3w8](https://www.youtube.com/watch?v=rw6Mqpl_3w8)

#### **Government Technical College, Myingyan**

<https://www.facebook.com/gtcmyingyan/?rf=588587391208246>

#### **Government Technical Institute, Chauk**

#### **Government Technical Institute, Yenangyaung**

<https://www.facebook.com/pages/Government-Technical-Institute-GTIYenangyaung/915971985115333>

<http://www.classbase.com/Countries/Myanmar/Universities/Government-Technical-Institute-Yenangyaung-27446>

#### **Government Technical Institute, Kyaukpadaung**

<https://www.facebook.com/Government-Technical-Institute-Kyaukpadaung-439154612873352/?fref=photo&sk=photos>

#### **Government Technical Institute, Pyinoolwin**

<https://www.facebook.com/pages/Government-Technical-InstitutePyin-Oo-Lwin/531172496896491>

#### **Defence Services Technological Academy**

<https://www.facebook.com/Defence-Services-Technological-Academy-DSTA-178046988959023/>

[https://www.google.com.au/search?q=Defence+Services+Technological+Academy&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwj\\_y8nD-PbLAhWCqaYKHV2ND9YQsAQINg&dpr=1](https://www.google.com.au/search?q=Defence+Services+Technological+Academy&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwj_y8nD-PbLAhWCqaYKHV2ND9YQsAQINg&dpr=1)

#### **Myanmar Aerospace Engineering University**

<https://www.facebook.com/MAEU001/>

<https://www.google.com.au/search?q=Myanmar+Aerospace+Engineering+University&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwiRjaf8-PbLAhWBHaYKHTIPCioQsAQIJQ&dpr=1>

#### **Technological University, Meiktila**

<https://www.facebook.com/meiktilatu>

<https://www.facebook.com/pages/TU-Meiktila/107304902651929?rf=107956875904010>

#### **Technological University, Mawlamyaing**

[https://www.google.com.au/search?q=Technological+University,+Mawlamyaing&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjShtfe-fbLAhWnUqYKHx\\_jACwQsAQIJg](https://www.google.com.au/search?q=Technological+University,+Mawlamyaing&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjShtfe-fbLAhWnUqYKHx_jACwQsAQIJg)

#### **Government Technical Institute, Kyaukphyu**

<https://www.facebook.com/pages/Government-Technical-Institute-kyauk-Phyu/1695812313968336>

<https://www.facebook.com/pages/GTI-Kyauk-Phyu/103158206688639>

#### **Government Technical Institute, Thandwe**

#### **Government Technical Institute, Kalay**

<https://www.facebook.com/pages/Technological-University-Kalay-Kalay-Myanmar/153071591430064>

<https://www.youtube.com/watch?v=7Bs5BESac1U>

#### **Technological University, Pakokku**

<http://pakokkutechnologicaluniversity.blogspot.com.au/2014/09/technological-university-pakokku.html>

<https://www.facebook.com/pakokkutechnologicaluniversity/>

#### **Technological University, Kyaingtong**

<https://www.facebook.com/Technological-University-Kyaingtong-252010588168814/>

<https://www.facebook.com/pages/Technological-University-Kyaing-Tong/455523621171035>

#### **Technological University, Lashio**

<https://www.facebook.com/pages/Technological-University-lashio/155132177867699>

#### **Technological University, Loi Lin**

#### **Technological University, Panglong**

<https://www.facebook.com/PangLong-Technological-University-291906210826945/>

#### **Technological University, Dawei**

[https://www.google.com.au/?gfe\\_rd=cr&ei=DV8DV6HxPNTN8gfzvJSICg&gws\\_rd=ssl#q=Technological+University%2C+Dawei](https://www.google.com.au/?gfe_rd=cr&ei=DV8DV6HxPNTN8gfzvJSICg&gws_rd=ssl#q=Technological+University%2C+Dawei)

[http://www.university-directory.eu/Myanmar-\(Burma\)/Technological-University-Dawei-TU-Dawei.html](http://www.university-directory.eu/Myanmar-(Burma)/Technological-University-Dawei-TU-Dawei.html)

#### **Myanmar Maritime University**

<http://myanmarmaritimeuni.org/>

[https://www.google.com.au/search?q=Myanmar+Maritime+University&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjRrYvb\\_fbLAhUKkpQKHSTuD](https://www.google.com.au/search?q=Myanmar+Maritime+University&biw=1360&bih=623&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjRrYvb_fbLAhUKkpQKHSTuD)

<https://www.youtube.com/watch?v=QDtuEnb4M2E>

#### **Yangon Institute of Marine Technology**

<https://www.facebook.com/pages/Yangon-Institute-of-Marine-Technology/104023376299811>

<https://www.youtube.com/watch?v=WpWUQwCvMzg>

#### **Sittway City Technological University (STCTU)**

Sittway City Technological University is a Myanmar branch of S.T.C Technological University which provides online education to needy students of Myanmar

Website- [www.stctu.blogspot.com](http://www.stctu.blogspot.com) & [www.stclementstu.com](http://www.stclementstu.com)

## TU ONLINE

[www.highlightcomputer.com/tuonline.htm](http://www.highlightcomputer.com/tuonline.htm)

## Technological Universities Study Support Program

This website contains the reference books for TU Engineering Courses Curriculums.

If any link is not working, please send the link to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)

TU Teachers can freely upload their lessons & notes to [www.filefactory.com](http://www.filefactory.com)

Filefactory can allow free uploads up to 3 months. If you want to house your files permanently, you can send your link to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com) also mention your name and name of your TU. We will download your resources and repost to permanent hosting site and provide you with the link.

## MyanmarTechnological University Curriculum

[www.highlightcomputer.com/ttucurriculum.htm](http://www.highlightcomputer.com/ttucurriculum.htm)

[www.ipemyanmar.org/IQYTUResources.htm](http://www.ipemyanmar.org/IQYTUResources.htm)

## LECTURES

<http://www.highlightcomputer.com/tulectures.htm>

Do not download Filefactory Links. They are not working. Only view the videos.

If unsafe to download appears, do the following things.

- Save as
- (Unsafe to download)—Click VIEW DOWNLOAD
- Highlight the file
- Click the right click
- Click- Download unsafe file
- Please note that there is no virus in the files in my links but filefactory site is online file sharing site and windows explorer sometime prevents the file to download.
- **To report not working link**
  - Download the word file from the following link  
[www.highlightcomputer.com/notworkinglink.doc](http://www.highlightcomputer.com/notworkinglink.doc)
  - Highlight the not working links with RED Colour
  - Then send it to [iqytechnicalcollege@gmail.com](mailto:iqytechnicalcollege@gmail.com)
  - It will be easier for System Administrator to find out the resources for **NOT WORKING LINKS**.

Electronic Engineering

Electrical Power Engineering

Civil Engineering

Mechanical Engineering

ICT Engineering

Mechatronics Engineering

Chemical Engineering

Petroleum Engineering

### Other BE Level Curriculums

Architectural Engineering

(First three years common with BE-Civil)

Metallurgical & Materials Engineering

(First three years common with BE-Mechanical)

Marine Electrical & Electronics Engineering

(First four years common with BE-Mechatronics)

Mineral Extraction & Explosion Protection Engineering

(First four years common with BE-Petroleum)

Thanlyin Technological University (TTU)

Department of Electronic Engineering

Curriculum for Bachelor of Engineering

(New 6 year Direct Intake System)

FIRST YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M-11011	Myanmar I	2	0	0	3	2	4
2	E-11011	English I	2	1	0	3	2.5	4.5
3	EM-11001	Engineering Mathematics	4	2	0	6	5	9
4	E.Ch-11011	Engineering Chemistry I	3	1	2	6	4.5	7.5
5	E.Ph-11011	Engineering Physics I	2	1	2	5	3.5	5.5
6	ME-11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	EcE-11011	Fundamental of Electronic CircuitsI	2	0	1	3	2.5	4.5
Total			16	5	7	29	22	38

FIRST YEAR (Second Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M-12011	Myanmar II	2	0	0	3	2	4
2	E-12011	English II	2	1	0	3	2.5	4.5
3	EM-12002	Engineering Mathematics	4	2	0	6	5	9
4	E.Ch-12011	Engineering Chemistry II	3	1	2	6	3.5	7.5
5	E.Ph-12011	Engineering Physics II	2	1	2	5	3.5	5.5
6	ME-12011	Basic Engineering Drawing II	1	0	2	3	2	3
7	EcE-12011	Fundamental of Electronic Circuits II	2	0	1	3	2.5	4.5
Total			16	5	7	29	22	38

Remark : After second semester examination, Industrial Training (Visit) under the supervision of teachers.

SECOND YEAR (First Semester)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-21011	English	2	1	0	3	2.5	4.5
2	EM-21003	Engineering Mathematics	4	2	0	6	5	9
3	EcE-21002	Communication Principles I	2	0	1	3	2.5	4.5
4	EcE-21001	Electronic Engineering Circuit I	2	0	2	4	3	5
5	EcE-21021	Digital Electronics I	2	0	1	3	2.5	4.5
6	EcE-21011	Microelectronics I	2	1	1	4	3	5
7	EcE-21014	Technical Programming I	2	0	2	4	3	5
Total			16	4	7	27	21.5	37.5

SECOND YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-22011	English	2	1	0	3	2.5	4.5
2	EM-22004	Engineering Mathematics	4	2	0	6	5	9
3	EcE-22002	Communication Principles II	2	0	1	3	2.5	4.5
4	EcE-22001	Electronic Engineering Circuit II	2	0	2	4	3	5
5	EcE-22021	Digital Electronics II	2	0	1	3	2.5	4.5
6	EcE-22011	Microelectronics II	2	1	1	4	3	5
7	EcE-22014	Technical Programming II	2	0	2	4	3	5
Total			16	4	7	27	21.5	37.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

THIRD YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		

1	E-31011	English	3	1	0	4	3.5	4.5
2	EM-31005	Engineering Mathematics	4	2	0	6	5	9
3	EcE-31001	Engineering Circuit Analysis I	2	1	2	5	3.5	5.5
4	EcE-31002	Computer Communication I	2	1	1	4	3	5
5	EcE-31011	Engineering Electromagnetic I	2	1	0	3	2.5	4.5
6	EcE-31021	Integrated Electronics I	2	1	1	4	3	5
7	EcE-31003	Modeling and Control I	2	1	1	4	3	5
Total			14	8	5	30	23.5	38.5

THIRD YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-32011	English	3	1	0	4	3.5	4.5
2	EM-32006	Engineering Mathematics	4	2	0	6	5	9
3	EcE-32001	Engineering Circuit Analysis II	2	1	2	5	3.5	5.5
4	EcE-32002	Computer Communication II	2	1	1	4	3	5
5	EcE-32011	Engineering Electromagnetic II	2	1	0	3	2.5	4.5
6	EcE-32021	Integrated Electronics II	2	1	1	4	3	5
7	EcE-32003	Modeling and Control II	2	1	1	4	3	5
Total			14	8	5	30	23.5	38.5

Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

FOURTH YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-41011	English	3	1	0	4	3.5	6.5
2	EM-41016	Engineering Mathematics	4	2	0	6	5	9
3	EcE-41002	Digital Communication I	2	2	0	4	3	5
4	EcE-41021	Digital Design with HDL I	2	1	1	4	3	5
5	EcE-41003	Modern Control System I	2	1	1	4	3	5
6	EP-41043	Electrical Machines I	2	1	1	4	3	5
7	EcE-41031	Industrial Electronic & Control I	2	1	1	4	3	5
Total			14	8	4	30	23.5	40.5

FOURTH YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-42011	English	3	1	0	4	3.5	6.5
2	EM-42016	Engineering Mathematics	4	2	0	6	5	9
3	EcE-42002	Digital Communication II	2	2	0	4	3	5
4	EcE-42021	Digital Design with HDL II	2	1	1	4	3	5
5	EcE-42003	Modern Control System II	2	1	1	4	3	5
6	EP-42043	Electrical Machines II	2	1	1	4	3	5
7	EcE-42031	Industrial Electronic & Control II	2	1	1	4	3	5



Total	14	8	4	30	23.5	40.5
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Remark : After Second Semester Examination, Industrial Attachment : Four weeks during the vacation

FIFTH YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-51011	English	3	1	0	4	3.5	6.5
2	EcE-51001	Advanced Electronics	4	2	3	9	6.5	10.5
3	EcE-51003	Digital Control System	4	1	3	8	6	10
4	EcE-51013	Microwave Engineering	4	3	1	8	6	10
Total			15	7	7	29	22	37

FIFTH YEAR (Second Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-52011	English	3	1	0	4	3.5	6.5
2	EcE-52004	Microprocessor Systems	4	2	3	9	6.5	10.5
3	EcE-52005	Digital Signal Processing	4	1	3	8	6	10
4	EcE-52012	Wireless and Mobile Communications	4	3	1	8	6	10
Total			15	7	7	29	22	37

Remark : After Second Semester Examination, it is necessary to carry out project.

FINAL YEAR (First Semester)								
Sr. No	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E-61011	English	3	1	0	4	3.5	6.5
2	EcE-61016	Industrial Management	2	2	0	4	3	5
3	EcE-61015	Network Planning and Management (Project)	2	2	0	4	3	5
4	EcE-61001	Software Tools for Electronic Design (Project)	2	0	2	4	3	5
5	EcE-61012	Modern Electronic Communication Systems I	2	2	0	4	3	5
6	EcE-61003	PLC and SCADA Control System (Project)	2	1	2	5	3.5	5.5
Total			12	8	4	24	18	30

Remark :

For EcE 61001, Software Tools for Electronic Design : No examination, assignments only. Two elected projects will be submitted.

FINAL YEAR (Second Semester)
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In second semester, final year students have to give at least three seminar presentations and viva voce for the Graduation Project/ Internship Program/ Mini Thesis.

Take Credit Points = 10

(1 Lecture = 1 credit, 1 tutorial = 0.5 credit and 1 practical = 0.5 credit) for all six years

Thanlyin Technological University (TTU)  
 Department of Electrical Power Engineering  
 Curriculum for Bachelor of Engineering (New 6 year Direct Intake System)

FIRST YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				CreditPoints	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 11011	Myanmar I	2	0	0	2	2	4
2	E 11011	English I	2	1	0	3	2.5	4.5
3	EM 11001	Engineering Mathematics I	4	2	0	6	5	9
4	E.Ch. 11011	Engineering Chemistry I	2	1	2	5	3.5	5.5
5	E.Ph. 11011	Engineering Physics I	2	1	2	5	3.5	5.5
6	ME 11011	Basic Engineering Drawing I	1	0	2	3	2	3
7	ME 11011	Principle of Electrical Engineering I	2	0	1	3	2.5	4.5
Total			15	5	7	27	21	36

FIRST YEAR (Semester Two) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	M 12011	Myanmar II	2	0	0	2	2	4
2	E 12011	English II	2	1	0	3	2.5	4.5
3	EM 12002	Engineering Mathematics II	4	2	0	6	5	9
4	EM 12012	Engineering Chemistry II	2	1	2	5	3.5	5.5
5	E.Ch. 12011	Engineering Physics II	2	1	2	5	3.5	5.5
6	E.Ph. 12011	Basic Engineering Drawing II	1	0	2	3	2	3
7	ME 12011	Principle of Electrical Engineering II	2	0	1	3	2.5	4.5
Total			15	5	7	27	21	36

SECOND YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 21011	English	2	1	0	3	2.5	4.5
2	EM 21003	Engineering Mathematics III	4	2	0	6	5	9
3	EP 21011	Electrical Engineering Circuit Analysis I	3	1	1	5	4	7
4	EP 21014	Basic Electronics I	2	1	1	4	3	5
5	EP 21021	Electromechanics I	2	1	1	4	3	5

6	EP 21026	Generation, Transmission and Distribution	2	1	0	4	2.5	4.5
7	ME 21015	Engineering Mechanics I	3	1	0	4	3.5	6.5
Total			18	8	4	30	24	41.5

SECOND YEAR (Semester Two) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 22011	English	2	1	0	3	2.5	4.5
2	EM 22004	Engineering Mathematics IV	4	2	0	6	5	9
3	EP 21011	Electrical Engineering Circuit Analysis II	3	1	1	5	4	7
4	EP 22014	Basic Electronics II	2	1	1	4	3	5
5	EP 22021	Electromechanics II	2	1	1	4	3	5
6	EP 22026	Generation, Transmission and Distribution	2	1	0	4	2.5	4.5
7	ME 22015	Engineering Mechanics II	3	1	0	4	3.5	6.5
Total			18	8	4	30	23.5	41.5

THIRD YEAR (Semester One) (18 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 31011	English	2	1	0	3	2.5	4.5
2	EM 31005	Differential Equation	4	2	0	6	5	9
3	ME 31034	Mechanical Engineering Fundamental I	2	1	0	3	3.5	4.5
4	EP 31011	Electrical Engineering Circuit Analysis III	2	1	1	5	3	5
5	EP 31014	Power Electronics I	2	1	1	4	3	5
6	EP 31021	Electrical Machine and Operation I	2	1	1	4	3	5
7	EP 31033	Electromagnetic Field I	2	1	0	4	2.5	4.5
8	EP 31025	Electrical Measurement Instrumentation	3	1	1	4	4	7
Total			21	9	3	33	28	44.5

THIRD YEAR (Semester Two) (15 weeks)								
Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 32011	English	2	1	0	3	2.5	4.5
2	EM 32006	Differential Equation II	4	2	0	6	5	9

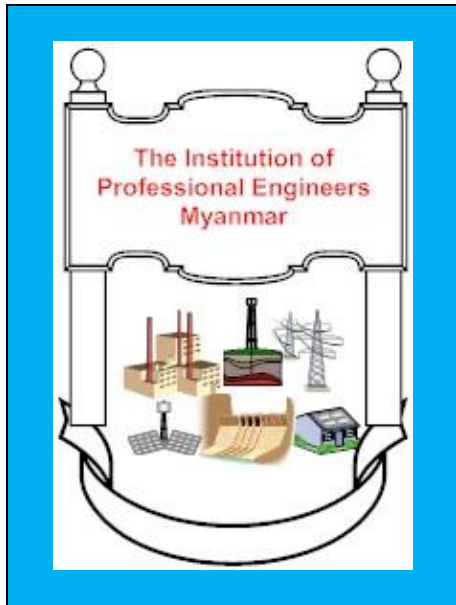


Total	23	8	1	33	28.5	52.5
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Power System I (5th Year Power System  
 Stability ) Power System

FIFTH YEAR (Semester One) (18 weeks)

Sr. No.	Course No.	Courses	Period /week(avg.)				Credit Points	Independent Learning
			Lect.	Tut.	Pract.	Tot.		
1	E 51011	English						



# EDUCATIONAL ACCREDITATION

Promoting Myanmar Engineering Profession

## CERTIFICATE OF AFFILIATION

This is to certify that

### **STC Technological University (International Engineering)**

is an affiliated educational institution to provide the education programs accredited and recognised by The Institution of Professional Engineers Myanmar.

According to the agreement between The Institution of Professional Engineers Myanmar and the affiliated educational institution, the affiliated educational institution is required to the tasks related to sustainability and development of The Institution of Professional Engineers Myanmar and maintain it's academic integrity and quality.

Date: 26 April 2018

Affiliation Record Number: A8/2018

Signed

Registrar

The Institution of Professional Engineers Myanmar