

BASIC CIVIL ENGINEERING STUDY GUIDE

CE 101 Mathematics

File-

Diploma in Electrical Engineering Learning System ,
EE201 Engineering Mathematics.

Follow the study guide.

(OR)

Cert EE+ Dip EE + Adv Dip EE (Myanmar) Learning System
EE201 Engineering Mathematics.

Follow the study sequence.

CE 102 Physics

File-

Diploma in Electrical Engineering Learning System ,
EE204 Engineering Physics

Follow the study guide.

(OR)

Cert EE+ Dip EE + Adv Dip EE (Myanmar) Learning System
EE204 Engineering Physics

Follow the study sequence.

CE 104 Fluid Dynamics

The same contents in ME 301 Fluid Dynamics

Advanced Mechanical Engineering Study Guide.

Follow the instructions for ME 301 Fluid Dynamics

CE 108 Electrical Principle

File-

Certificate in Electrical Engineering Learning System

EE 101 DC Circuit Problem Part (1)

Follow the study sequence/ guide

(OR)

Cert EE+ Dip EE + Adv Dip EE (Myanmar) Learning System

EE 101 DC Circuit Problem Part (1)

Follow the study sequence.

CE 109 Energy Efficient Building Design

File-

Advanced Diploma in Electrical Engineering Learning System

EE 307 Energy Efficient Building Design

Follow the study sequence/ guide

(OR)

Cert EE+ Dip EE + Adv Dip EE (Myanmar) Learning System

EE 307 Energy Efficient Building Design

Follow the study sequence

CE 111 Engineering Mechanics

Engineering Mechanics

Folder		BAE 403 Engineering Mechanics of B App Eng (Electrical)		
File				
		Instruction		
		Study the notes, calculate the example problems then do the exercises numbers as indicated		
File name	Chapter	Page		Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
Chap 1. pdf			All	Stress Example 1.1, 1.2, 1.3
Chap 1 slide.pdf			All	Stress lectures
Chap 2.pdf			All	Strain All examples
Chap 2 slide.pdf			All	Strain lessons
Chap 3.pdf			All	Mechanical properties of materials
Chap 3 slide.pdf			All	Mechanical properties of materials
Chap 4.pdf			All	Axial members
Chap 4 slide.pdf			All	Axial members
Chap 5.pdf			All	Torsion of shaft
Chap 5 slide.pdf			All	Torsion of shaft
Chap 6.pdf			All	Symmetric bending of beams
Chap 6 slide.pdf			All	Symmetric bending of beams
Exercise	Q186	to	223	of Assignment (14)--- Assignment (90)

ME 103 Engineering Mechanics**Engineering Mechanics**

Folder		BAE 403 Engineering Mechanics of B App Eng (Electrical)		
File				
		<u>Instruction</u> Study the notes, calculate the example problems then do the exercises numbers as indicated		
File name	Chapter	Page		Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
Chap 7.pdf			All	Deflection of symmetric beams
Chap 7 slide.pdf			All	Deflection of symmetric beams
Chap 8.pdf			All	Stress transformation
Chap 8 slide.pdf			All	Stress transformation
Chap 9.pdf			All	Strain transformation
Chap 9 slide.pdf			All	Strain transformation
Chap 10.pdf			All	Design and failure
Chap 10 slide.pdf			All	Design and failure
Chap 11.pdf			All	Stability of columns
Chap 11 slide.pdf			All	Stability of columns
Exercise	Q224	to	Q251	of Assignment (14)--- Assignment (91)

ME 301 Applied Mathematics

ME 101 Applied Mathematics

Applied Mathematics

Folder	ME 301 Applied Mathematics (1 pt)		
File	ME 301 Applied Mathematics		
<u>Instruction</u> Study the notes, calculate the example problems then do the exercises numbers as indicated			
Chapter	Page	Topics	
		Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary	
	16		Kinematics
	26		Projectiles
	36		Forces
	45		Resistance forces
	55		Resolving forces
	63		Rigid bodies
	73		Centre of gravity
	80		Momentum
	92		Energy
	100		Circular motion
	112		Gravitation and planetary motion
	122		The language of vectors
Exercise	Q252 to Q264 of Assignment Number (15)		

Folder				CE 103 Basic Surveying
File				CE 103 Basic Surveying
<u>Instruction</u>				
Study the notes, calculate the example problems then do the exercises numbers as indicated				
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
	1			Basic survey methods
	2			Scales
	3	to	4	Survey diagrams
	5	to	6	Survey stations
	7	to	8	Survey instruments
	9			Tape
	10			Surveying signs
	11	to	12	Laying the chains
	13	to	15	Measurement on hills
	16	to	17	Arc intersection
	18	to	19	Transverse survey
	20	to	22	Levelling
	23	to	24	Sextant / Level
	26	to	27	Prism/ Cross Staff
	28	to	29	Use of clinometer
	30	to	31	Chain angle, Example survey diagram
	35	to	38	Site surveying
Exercise Q1297 to Q1305				of Assignment Number (92)

Folder				CE 105 Hydraulics
File				CE 105 Hydraulics
<u>Instruction</u>				
Study the notes, calculate the example problems then do the exercises numbers as indicated				
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
	9	to	14	Fundamental
	15	to	25	Hydrostatics
	26	to	31	Energy equation
	32	to	40	Momentum equation
	41	to	51	Pipe flow
	52	to	61	Physical modelling
	62	to	72	Open channel flow
	73	to	82	Uniform flow
	83	to	93	Channel design
	94	to	102	Critical flow
	103	to	113	Rapidly varied flow
	114	to	122	Hydraulic pump
	123	to	130	Hydraulic structure
	131	to	138	Gradually varied flow
	139	to	147	Computation of flow profile
	148	to	158	Unsteady flow
	159	to	176	Hydraulic machinery
Exercise Q1306 to Q1332				of Assignment Number (93)

Folder				CE 106 Hydrology
File				CE 106 Hydrology
<u>Instruction</u>				
Study the notes, calculate the example problems then do the exercises numbers as indicated				
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
	11	to	21	Introduction
	22	to	37	Participation
	38	to	50	Evaporation
	51	to	63	Infiltration
	64	to	76	Ground water
	77	to	92	Hydrograph
	93	to	106	Flow routing
	107	to	118	Hydrological measurement
	119	to	131	Hydrological statistics
	132	to	145	Hydrological design
Exercise	Q1333	to	Q1370	of Assignment Number (94)

Folder				CE 107 Sanitation and Water Supply
File				CE 107 Sanitation and Water Supply
<u>Instruction</u>				
Study the notes, calculate the example problems then do the exercises numbers as indicated				
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
	9	to	18	Global sanitation and water supply
	19	to	34	Water and excreta related diseases
	35	to	67	Sanitation system
	68	to	90	Water supply system
	91	to	108	Programming and planning
	109	to	123	Economic and financing
	124	to	149	Annex A to D
Exercise Q1372 to Q1393 of Assignment Number (95)				

Folder				CE110 Building Construction
File				CE110 Building Construction
				<u>Instruction</u>
				Study the notes, calculate the example problems then do the exercises numbers as indicated
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
	5	to	10	Making building
	13	to	39	Foundation
	40	to	54	Wood
	55			Nail & junction jointer
	58	to	61	
	62	to	74	Heavy timber frame construction
	75	to	81	Light wood frame construction
	82			Building plan
	83	to	92	Frame
	93	to	102	Roof/ Stair
	103	to	116	Exterior finish
	117	to	130	Interior finish
	131	to	136	Stairs
	137	to	154	Brick masonry
	155	to	171	Stone & concrete masonry
	172	to	180	Masonry load bearing wall construction
	180	to	181	Structural drawing of masonry load bearing wall
	182	to	185	Brick laying pattern
	187	to	223	Steel frame construction

	225	to	232	Light gauge steel frame construction
	237	to	254	Concrete construction
	255	to	279	Site cast concrete framing system
	283	to	300	Pre cast concrete framing system
	302	to	324	Roofing
	325	to	342	Glazing
	343	to	357	Windows & Doors
	361	to	363	Cladding
	370	to	376	Cladding with metal & glass
	385			
	387	to	395	
	399	to	404	Interior finish
	405	to	413	Interior wall/ Partition
	418			
	420			
	422			
	424	to	438	Finish ceiling & floors
	440	to	454	Building Construction Technical Terms
Exercise	Assignment Number (96+97)			