

IQY TECHNICAL COLLEGE

STC TECHNOLOGICAL UNIVERSITY

ST CLEMENTS UNIVERSITY MYANMAR COLLEGE

IPEM TECHNOLOGICAL UNIVERSITY

MASTERS DEGREE LEARNING SUPPORT

There are two types of Masters Programs in Engineering

1. [Master of Engineering Practice](#)
2. [Master of Engineering](#)

(1) Master of Engineering Practice (240 credits, 120 credits for BE degree)

Master of Engineering Practice is for experienced engineers . It will include the following subjects of 10 credits each

- BAE 701 Engineering Fundamental
- BAE 702 Engineering Management
- BAE 703 Leadership & Human Resources Management
- BAE 704 Risk Management & Industrial Safety
- BAE 705 Engineering Competency Development
- BAE 706 Engineering Report Writing
- BAE 707 Engineering Ethics
- BAE 708 Engineering Knowledge

Completion of the above subjects will earn Graduate Diploma in Engineering Practice (80 credits at Masters level +120 Credits for Bachelors degree level total 200 credits. Completion of two or more units can earn Graduate Certificate in Engineering.

The candidate will need to do Engineering Design Project of 40 credits to complete Master of Engineering Practice of 240 credits

The followings are study instruction

Form 15

IQY Master Diploma

BAE701 to 708, you will complete the Graduate Diploma

Then submit the design project to complete the Masters

From the above links, textbooks can be downloaded. Choose Civil Engineering

[Form 45 St Clements University Master of Engineering for Non standard Entry Study Support](#)

The following link shows the example of the tasks that you need to do

[Form 46 Master Diploma Civil Worked Example](#)

The following link contains the Masters Course References.

[Form 18](#)

Master Diploma resources

(1) Master of Engineering (Professional Engineering)

(240 credits, 120 credits for BE degree)

Masters of Engineering (Professional Engineering) program is for recent graduates who have completed their BE degrees.

It will include the following 24 subjects of 5 credits each

The students will have to write 20 pages study progress report for each of the subjects outlined below.

The report needs to include

- Date and chapters that the candidate reads (The student will need to read the book
- at least 4 days per week)

- Highlight the key concepts, key formula, key theory & practical application concepts .
- Notes of the topic that you read.
- Key diagrams, formula, problem solutions
- Power point slides to express the key topics

There are 24 units in Masters of Engineering (Professional Engineering) Program, the candidate will need to complete one unit per month so that the whole program will be completed within 24 months. (120 credits at Masters level and 120 Credits for Bachelors degree total 240 credits).

As Master of Professional Engineering is delivered entirely in English and very intensive program, to encourage the students to earn the Graduate Diploma and Masters degree, the following arrangements are also made.

Graduate Diploma in Engineering (140 credits)

Completion of the compulsory 4 subjects will earn Graduate Diploma in Engineering (20 credits at Masters level +120 Credits for Bachelors degree level total 140 credits. Completion of two or more units can earn Graduate Certificate in Engineering.

Master of Engineering Science

Completion of the compulsory 6 subjects will earn Master of Engineering Science (30 credits at Masters level +120 Credits for Bachelors degree level total 150 credits.

Master of Engineering

Completion of the compulsory 6 subjects PLUS project (30 credits) will earn Master of Engineering (60 credits at Masters level +120 Credits for Bachelors degree level total 180 credits.

Master of Engineering from SCPU School of Engineering registered in Switzerland

Please note that the candidates who want to get the Master of Engineering from SCPU School of Engineering registered in Switzerland must complete

Masters of Engineering (Professional Engineering) by either studying the lectures of entire English medium of language instruction or self study in provided textbooks written in English which they need to do self study and submit the study report.

Electrical Compulsory Subjects

- BAE 655-Wireless Communications
- BAE656 Advanced Digital Signal Processing
- BAE 670-Power System Engineering
- BAE 661-Design of Electrical Services for Buildings
- BAE 677-Photovoltaic Systems
- BAE 660-Control Engineering

The above subjects will be provide with English and Myanmar Instructions and guidance. The candidates can choose the other subjects from the available subjects but they are entire English medium of instruction or self study in provided textbooks written in English which they need to do self study and submit the study report.

Instead of doing the project, the following options are also open for the students.

Option (1) Self study or two more subjects

The students can select choose two more subjects from the available subjects in same discipline or other discipline , follow the entire English medium of instruction or self study in provided textbooks written in English which they need to do self study and submit the study report.

Option (2) Complete any two of the following subjects by submitting the assignments

- BAE 702 Engineering Management
- BAE 703 Leadership & Human Resources Management
- BAE 704 Risk Management & Industrial Safety
- BAE 707 Engineering Ethics

Civil Compulsory Subjects

BAE 631-Advanced Concrete Technology

BAE 634-Building Construction

BAE 636-Building Technology Electrical Mechanical System (BAE661-Design of Electrical Services for Buildings)

BAE 650-Steel Design

BAE 635-Building Survey

BAE 644-Estimating

The above subjects will be provide with English and Myanmar Instructions and guidance. The candidates can choose the other subjects from the available subjects but they are entire English medium of instruction or self study in provided textbooks written in English which they need to do self study and submit the study report.

Instead of doing the project, the students can select choose two more subjects from the available subjects in same discipline or other discipline , follow the entire English medium of instruction or self study in provided textbooks written in English which they need to do self study and submit the study report.

Mechanical Compulsory Subjects

BAE 678A/B-Machine Design

BAE 689A/B-Mechanical Design

BAE 698-Thermal Engineering

BAE 694-Control Engineering

BAE 699-Rotating Machinery Vibration

BAE 690-Mechanical Estimating

The above subjects will be provide with English and Myanmar Instructions and guidance. The candidates can choose the other subjects from the available subjects but they are entire English medium of instruction or self study in provided textbooks written in English which they need to do self study and submit the study report.

Instead of doing the project, the students can select choose two more subjects from the available subjects in same discipline or other discipline , follow the entire English medium of instruction or self study in provided textbooks written in English which they need to do self study and submit the study report.

