

Doctor of Engineering Program in Mechanical Engineering (International Program).

D.Eng. (Mechanical Engineering)

### **Philosophy:**

This program aims to produce engineers and academics at the Doctoral Degree with quality, moral, and the ability to do the research and development of technology and innovation Including working as an engineer in an industrial environment leading to change the world society strongly and sustainably.

### **Objectives:**

1. To produce all-rounded engineers, academics or researchers at Doctoral Degree with in-depth knowledge. The graduates can apply knowledge in conducting research studies for creating a new body of knowledge in mechanical engineering having high impact on new changing technologies.
2. To encourage faculty members to conduct research studies in mechanical engineering to increase knowledge and academic potential.
3. To instill morals and ethics, nurture conscience and social responsibility.
4. To encourage them to realize the significance of autonomous and life-long learning.

### **Qualifications of a prospective candidate:**

#### Plan 2.1 For Master's Degree Holder

1. A candidate must hold a Master's Degree in Mechanical Engineering with a GPA not less than 3.5 or
2. A candidate holds a Master's Degree in Mechanical Engineering and has at least two years' experience in industry or research and development or
3. A candidate has the outstanding international research Based on the consideration of Mechanical Engineering program committee

#### Plan 2.2 For Bachelor's Degree Holder

1. A candidate must hold a Bachelor's Degree in Mechanical Engineering or related engineering or science and technology which corresponds to Mechanical Engineering as the decision of the program committee with a GPA not less than 3.5 or
2. A candidate holds a Bachelor's Degree in Mechanical Engineering and has at least five years' experience in industry or research and development or

3. A candidate has the outstanding international research Based on the consideration of Mechanical Engineering program committee

The applicants in Plan 2.1 and 2.2 must provide the university the English Test Scores as in announcement of English Language Requirement

**Professions after graduation:**

1. Mechanical engineers who are knowledgeable in mechanical engineering who can design, analyze, development and apply with the mechanical engineering in industrial.
2. Researchers in Mechanical Engineering and related such as Mechanical design, Fluid and aircraft, Temperature and Energy, Robotics and Automation and Automotive.
3. Lecturers, or experts in Science and Technology University

**Curriculum**

Plan 2.1 for student with Master degree	48	Credits
Plan 2.2 for student with Bachelor degree	72	Credits

**Curriculum Components**

Plan 2.1 for student with Master degree

● Compulsory	6	Credits
● Elective Course	6	Credits
● Dissertation	36	Credits

Plan 2.2 for student with Bachelor degree

● Compulsory	6	Credits
● Elective Course	18	Credits
● Dissertation	48	Credits

COURSE STRUCTURE

Plan 2.1 for student with Master degree

First Year

First Semester	Credits
MTH 666 Advanced Mathematics for Engineers	3 (3 – 0 – 9)
MEE 672 Research Methodology	3 (0 – 9 – 9)
MEE 6XX Elective Course 1	3 (3 – 0 – 9)
MEE 6XX Elective Course 2	3 (3 – 0 – 9)
Total	12 (9 – 9 – 36)

First Year

Second Semester	Credits
MEE 662 Thesis	4 (0 – 8 – 12)
Total	4 (0 – 8 – 12)

Second Year

First Semester	Credits
MEE 662 Thesis	8 (0-16-24)
Total	8 (0-16-24)

Second Year

Second Semester	Credits
MEE 662 Thesis	8 (0-16-24)
Total	8 (0-16-24)

Third Year

First Semester	Credits
MEE 662 Thesis	8 (0-16-24)
Total	8 (0-16-24)

Third Year

Second Semester	Credits
MEE 662 Thesis	8 (0-16-24)
Total	8 (0-16-24)

Plan 2.2 for student with Bachelor degree

First Year

First Semester	Credits
MTH 666 Advanced Mathematics for Engineers	3 (3 – 0 – 9)
MEE 672 Research Methodology	3 (0 – 9 – 9)
MEE 6XX Elective Course 1	3 (3 – 0 – 9)
MEE 6XX Elective Course 2	3 (3 – 0 – 9)
Total	12 (9 – 9 – 36)

First Year

Second Semester	Credits
MEE 5XX/6XX Elective Course 3	3 (3 – 0 – 9)
MEE 5XX/6XX Elective Course 4	3 (3 – 0 – 9)
MEE 6XX Elective Course 5	3 (3 – 0 – 9)
MEE 6XX Elective Course 6	3 (3 – 0 – 9)
Total	12 (12 – 0 – 36)

Second Year

First Semester	Credits
MEE 663 Thesis	8 (0-16-24)
Total	8 (0-16-24)

Second Year

Second Semester	Credits
MEE 663 Thesis	8 (0-16-24)
Total	8 (0-16-24)

Third Year

First Semester	Credits
MEE 663 Thesis	8 (0-16-24)
Total	8 (0-16-24)

Third Year

Second Semester	Credits
MEE 663 Thesis	8 (0-16-24)
Total	8 (0-16-24)

### Forth Year

#### First Semester

MEE 663 Thesis

Total

#### Credits

8 (0-16-24)

8 (0-16-24)

### Forth Year

#### Second Semester

MEE 663 Thesis

Total

#### Credits

8 (0-16-24)

8 (0-16-24)