

Master of Engineering Program in Automotive and Advanced Transportation Engineering  
(International Program)

M.Eng. (Automotive and Advanced Transportation Engineering)

#### **Philosophy:**

This program aims to develop automotive engineers imbued with global perspectives and high level knowledge in automotive technology with international expertise and experience in automotive technology.

#### **Objectives:**

1. To produce all-rounded engineers and academics at Master degree level with in-depth knowledge. The graduates can apply knowledge in conducting research studies for creating a new body of knowledge in automotive engineering having high impact on new changing technologies.
2. To encourage faculty members to conduct research studies in automotive engineering to increase knowledge and academic potential.
3. To increase research and development and technology transfer in automotive engineering and related fields of the university and the country.
4. To instill morals and ethics, nurture conscience and social responsibility in the graduates and encourage them to realize the significance of autonomous and life-long learning.

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

1. Has a bachelor's degree or an equivalent degree in engineering or related fields or other degrees as approved by the recruitment committee
2. Has other qualifications according to the KMUTT regulations for postgraduate study

#### **Professions after graduation:**

1. Automotive engineers who are knowledgeable in automotive engineering together with energy management and environment perspectives as well as automotive production technology. They can design and analyze problems as well as repair and maintain automobiles based on engineering principles.

2. Lecturers, researchers or experts in automotive engineering or related fields
3. Entrepreneurs in automotive engineering

### Curriculum

Total Program Credits    38 Credits

### Curriculum Components

Plan 1.2 Dissertation

Major Course	12 Credits
Elective Course	12 Credits
Seminar	2 Credits
Dissertation	12 Credits

### COURSE STRUCTURE

#### First Year

##### First Semester

##### Credits

AME 601 Fundamental of Automotive and Advanced Transportation Engineering	3 (3 –0 – 9)
AME 672 Numerical Methods for Engineering	3 (3 –0 – 9)
AME 6XX Elective Course I	3 (3 –0 – 9)
AME 6XX Elective Course II	3 (3 –0 – 9)
Total	12 (12– 0 –36)

#### First Year

##### Second Semester

##### Credits

AME 602 Basic of Automotive and Advanced Transportation Design	3 (3 –0 – 9)
AME 603 Practice of Automotive and Advanced Transportation Design	3 (2 –2 – 9)
AME 6XX Elective Course III	3 (3 –0 – 9)
AME 6XX Elective Course IV	3 (3 –0 – 9)
Total	12(11– 2 – 36)



### Second Year

#### First Semester

#### Credits

AME 682 Seminar in Automotive and Advanced Transportation

Engineering Topics

2 (0 – 4 – 9)

AME 691 Thesis

6 (0 –12 – 24)

Total

8 (0 –16 – 33)

### Second Year

#### Second Semester

#### Credits

AME 691 Thesis

6 (0-12-24)

Total

6 (0-12-24)