

## ABOUT THE FACULTY



UiTM is one of the premier universities for the training of engineers in Malaysia. The mechanical engineering programme began in 1968 and offered the equivalent degree program. Nearly forty years on, the faculty has now included training of engineers from the diploma to the doctor of philosophy levels.

The faculty boasts excellent laboratory facilities, small Technology Enabled Classrooms, as well as experienced and dedicated staff. All the programs offered by the faculty are fully accredited and recognized by the relevant governing authorities in the country.

### Vision

To become a leader in the mechanical engineering discipline towards global excellence through world class education and research.

### Mission

To produce graduates with excellent engineering fundamentals with analytical and leadership skills, who are able to compete, be innovative and with high professional ethics.

## UiTM PHILOSOPHY



A belief that every individual has the ability to attain excellence through a transfer of knowledge and the assimilation of moral values so as to become professional graduates capable of developing knowledge, self, society and nation.

## DEGREE BY RESEARCH



### 1. EM950 - Doctor of Philosophy in Mechanical Engineering

Doctoral program at the Faculty of Mechanical Engineering was first introduced in June 1999. It is intended for graduates with an appropriate Master degree who wish to pursue research towards the award of PhD. Research supervision for the PhD students is usually led by academics and experts in the respective fields of specialization. Areas of research specialization are similar to those available for the MSc program.

## Area of Specialization

The areas of specialization in the Faculty of Mechanical Engineering include:

- Aerodynamics and Flight Engineering
- Fire Risk Management and Emergency
- Automotive Engineering
- Fracture Mechanics
- Bioengineering
- Heat and Mass Transfer
- Combustion and Propulsion
- Manufacturing Engineering
- Computational Fluid Dynamics
- Materials Engineering
- Mechatronics and Automation
- Computational Structural Analysis
- Nanotechnology
- Energy and Environment
- Structural Integrity
- Engineering Management
- System and Dynamic Control

### Entry Requirements

- Candidates who possess a Master degree in engineering or in one of the physical sciences from a recognized university, or other higher learning institutions recognized by UiTM Senate.
- Candidates who are interested to apply for admission are also required to submit a research proposal in the intended area of study.
- Candidates have to attend an interview, which will determine their suitability in the proposed area of research.

### Mode and Duration

Full-time: 6 – 10 semesters  
Part-time: 6 – 12 semesters

### Estimated Total Course Fees

RM12,763.00 (based on minimum duration of study for local full-time student)

### 2. EM750 - Master of Science in Mechanical Engineering

The Master of Science in Mechanical Engineering (EM750) is a research-based programme, which leads to the award of the Master of Science (MSc). This program prepares students with the necessary research skills in various field of specialization in the field of mechanical engineering. The program is designed for those who desire to be involved in research and development activities as well as a stepping stone for those who aspire to be academicians. Master of Science graduates also have the option to further their studies towards a Doctor of Philosophy (PhD).

## Entry Requirements

- Possess Bachelor of Engineering (Honours) degree or equivalent from a university recognised by UiTM Senate with a minimum CGPA of 2.75 or equivalent.
- Professional experience would be an added advantage. Candidate who interested to apply for admission is required to submit a research proposal in the intended areas of study.
- Candidates have to attend an interview, which will determine their suitability in the proposed area of research.

## Mode and Duration

Full-time: 3 – 6 semesters  
Part-time: 4 – 8 semesters

## Estimated Total Course Fees

RM 5,698.00 (based on minimum duration of study for local full-time student)

## DEGREE BY COURSEWORK



### 3. EM704 - Masters in Engineering Management

This course is introduced in line with the need to further expose the working engineers and other professionals with related management tools. In many situations professionals are always in predicament when they are given responsibility to lead organizations or department, as they lack the managerial skills to the extent that it affects their performances.

### Entry Requirements

- A Bachelor's degree (Hons) in engineering or physical science from a university recognised by UiTM Senate with CGPA of 3.50 and above with no working experience in industries or public sector related to engineering areas.
- A Bachelor's degree (Hons) in engineering or physical science from a university recognised by UiTM Senate with a minimum CGPA of 2.50 to 2.75; and with at least three years of working experience in industries or public sector related to engineering areas.
- A candidate is required to submit a resume/CV and will be called for an interview session conducted at the Faculty.
- Candidates with CGPA less than 2.50 but with more than 5 years of working experiences in related engineering industries or public sectors, can be considered.
- Candidates without a Bachelor's degree in the above-mentioned disciplines but possesses APEL T-7 with STPM/DIPLOMA in engineering or physical science with vast experience in the related engineering industries or public sectors would be considered.