

INTRODUCTION

FKMP started as the Department of Mechanical Engineering in 1993 during the early days of UTHM, which was then known as Pusat Latihan Staf Politeknik (PLSP). In 1996, PLSP was renamed Tun Hussein Onn Institute of Technology (ITTHO), which was later upgraded in status as a university called Kolej Universiti Tun Hussein Onn (KUiTTTHO) on the 30th of September, 2000. Under KUiTTTHO, mechanical engineering programmes was offered by two faculties, known as Faculty of Engineering (FK) and Faculty of Engineering Technology (FTK).

In 2004, the historical transformation of KUiTTTHO to Universiti Tun Hussein Onn Malaysia (UTHM) has led to the formation of Faculty of Mechanical and Manufacturing Engineering (FKMP) - the merging of departments under FK and FTK. Despite the development and competition between other universities, FKMP is positively striving towards excellence in teaching and researches in various mechanical engineering area – manufacturing, plant, aeronautics and materials.

With experts line up, the faculty also operates sophisticated Centres of Excellence (CoE). FKMP is always ambitious in producing graduates who are highly competitive, creative and innovative – valuable human resources to global mechanical engineering development.

The family of FKMP is actively growing under strong and charismatic leadership:

- _ Dean
- _ Deputy Dean (Academic and Internationalisation)
- _ Deputy Dean (Research and Development)
- _ Heads of Department:
 - _ Department of Engineering Mechanics (JKM)
 - _ Department of Plant and Automotive Engineering (JKLA)
 - _ Department of Manufacturing and Industrial Engineering (JKPI)
 - _ Department of Materials Engineering and Design (JKBR)
 - _ Department of Mechanical Engineering Technology (JKTM)
 - _ Department of Aeronautical Engineering (JKA)
 - _ Senior Assistant Registrar

The faculty vision is:

Leading the application of science and technology in mechanical and manufacturing engineering for universal prosperity

In addition to that, the faculty mission has been set as follows:

To produce and train responsible, competent, creative, and innovative professionals in the field of Mechanical and Manufacturing Engineering, through world-class academic programmes

The essence of university vision and mission as well as the faculty vision and mission are used as the guidelines in formulating the Programme Educational Objectives (PEO) and also the Programme Learning Outcomes (PLO).

For the academic programme, the Faculty has underlined the following programme educational objectives, which aims at producing:

- i. *Graduates with the ability to professionally practice knowledge and skills in mechanical engineering and develop specialised interest in mechanical engineering in the global market.*
- ii. *Graduates with the competence to formulate and solve engineering problems through analytical and innovative approaches, individually as well as in a team.*
- iii. *Graduates with the ability to communicate effectively, lead and appreciate entrepreneurship while being aware of ethical and environmental.*
- iv. *Graduates with strong commitment for self learning and continuous professional development.*

The faculty recognised the importance of PLO as the primary document. The latest review of the PLOs was presented to the faculty members during the Faculty Meeting on the 13th of May 2010. For this academic programme, the faculty has approved and decided on the following PLO:

Upon completion of the course the student should be able to:

- i. *Acquire adequate knowledge and technical competency in mechanical engineering and its related discipline. (KPT1-Knowledge)*
- ii. *Apply techniques, skills, and appropriate engineering approaches necessary for engineering research and practices. (KPT2-Practical Skill)*
- iii. *Communicate effectively using a variety of appropriate mediums. (KPT3-Communication)*
- iv. *Identify problems, generate solutions and innovate creatively to improve practices in mechanical engineering. (KPT4-Critical thinking, problem solving).*
- v. *Perform effectively in team working environment. (KPT5-Team work)*
- vi. *Acquire self-learning and information management capability, enabling life long learning. (KPT6-Life-long learning and Information Management).*
- vii. *Recognise the importance of entrepreneurship in mechanical engineering and its related discipline. (KPT7-Enterpreneurship)*
- viii. *Comprehend global perspective on social culture and sustainable development and perform professional and ethical responsibilities for the benefit of mankind. (KPT8-Moral, Professional and Ethics)*
- ix. *Organise and effectively lead a team to accomplish certain task. (KPT9-Leadership)*

The quality objectives in FKMP are as follows:

1. To conduct academic programmes every academic sessions as follows:
 - Doctor of Philosophy in Mechanical Engineering;
 - Masters in Mechanical Engineering;
 - Bachelor of Mechanical Engineering with Honours;
 - Bachelor of Aeronautical Engineering Technology (Professional Piloting) with Honours;

- Bachelor of Aeronautical Engineering Technology (Aircraft Maintenance) with Honours.
2. To produce at least 5% engineering graduates with a Cumulative Point Average (CPA) of 3.50 and above;
 3. To achieve 20% of the lecturers have PhD in the current years;
 4. Submit, present and publish 40 publications (original, translations or teaching modules) and articles in journal at international or local conference annually;
 5. To ensure 90% active academic staffs are involved in research or consultancy in the current year.

As we encourage R&D and lifelong learning, Post Graduates students are highly welcome to work with our creative and innovative academicians.

Welcome to Mechanical Engineering!