

FACULTY OF ENGINEERING

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BACHELOR OF  
**MECHANICAL  
ENGINEERING**  
WITH HONOURS

OCTOBER  
Intake

# INTRODUCTION

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Mechanical engineers are vital to the country's economic and infrastructure development as they play a pivotal role in the designing, development, manufacturing and maintenance of all the components which improve and support the systems and structure of our modern way of life. The student attending this programme will be exposed to an integrated education system enable them to be far-sighted and function not just as an engineer which will but also as a skilful manager. The aim of this programme therefore, is to impart the relevant knowledge and skills to cultivate a high level of self-confidence to enable graduates to become competitive, efficient, accountable, far-sighted engineers offering high quality professional service.

Mechanical engineering is a uniquely broad profession. It provides challenging career opportunities in field as diverse as power generation, automotive and aerospace technology, machine tools and robotics, bioengineering and the food, chemical and oil industries. Mechanical engineers work in design, research and development, consultancy, manufacturing, marketing and operations of technical and managerial expertise. Whereas, manufacturing engineers are employed in key positions in a wide range of industries. They are experts in designing and managing the essential systems necessary for successful industrial and business enterprises and they work, to improve productivity, in terms of availability, quality and costs of products or services supplied to customers, which amalgamate, technology, management and human resources.

## DURATION OF THE PROGRAMME

The minimum of study is 4 years (8 semesters) on full time to a maximum period of 7 years.

## FACILITIES AND RESOURCES

- Perpustakaan Tun Abdul Rahman Ya'kub (PeTARY) – The University library houses more than 200,000 titles of books and journals, and it also provides access to thousands of resources online.
- Resources Rooms – Spaces are provided for students to discuss, collaborate and work on academic tasks within the faculty and throughout the campus.
- Laboratory Facilities – To support your study, the university provides various facilities and resources:
  - FreshFlexible Manufacturing System
  - Robotic and Automation Laboratory
  - Mechanics Dynamic Laboratory
  - Computer Numerical Control Laboratory
  - Non Destructive Test Laboratory
  - Energy Research Room Laboratory
  - Advance Metrology/ Basic Metrology
  - Mechanical of Solid Laboratory
  - Mechanical Metallurgy Laboratory
  - Physical Metallurgy Laboratory
  - Applied & Basic Thermodynamics
  - CAE Laboratory
  - Control Laboratory
  - Fluid Laboratory
  - General and Training Workshop
  - Instrumentation Laboratory
  - Mechanics Statics Laboratory

## WHO SHOULD APPLY

The programme aims at providing opportunities to various group of potential candidates such as:

- Fresh graduates from STPM, Matriculation, Pre-University, Diploma and equivalents who wish to pursue engineering programme
- Employees from relevant sectors of industries who are determined to develop your human capital and expand your social network for better job performance and prospects

## ENTRY REQUIREMENTS

### Malaysian Qualifications

#### Generic Academic Requirements

- Possess Sijil Pelajaran Malaysia (SPM)/equivalent with a Credit in Bahasa Melayu/Bahasa Malaysia or Bahasa Melayu/Bahasa Malaysia July Paper and a Pass in Sejarah (SPM 2013 onwards)
- A Diploma or any other Equivalent Qualification OR STPM with minimum CGPA 2.00 with minimum Grade C (NGMP 2.00) in General Paper and in other two (2) subjects OR KPM Matriculation/ UM Science Foundation/ UiTM Foundation with minimum CGPA 2.00
- Minimum Band 2 in Malaysian University English Test (MUET)

#### Specific Requirements

- Possess a **DIPLOMA** in related field/equivalent as approved by UNIMAS Senate with minimum CGPA 2.50; **OR**
- Obtained minimum Grade C (NGMP 2.00) in **STPM** for the following subjects:
  - Physics
  - Mathematics; and
  - Biology/Chemistry; **OR**
- Obtained minimum Grade C (2.00) in **MATRICULATION/FOUNDATION** for the following subjects:
  - Mathematics
  - Physics/Engineering Physics; and
  - Chemistry/Engineering Chemistry/ Biology/Basic Engineering; **AND**
- Minimum Grade C in SPM for Mathematics/Additional Mathematics; **AND**
- Minimum Grade E in SPM for English Language; **AND**
- Minimum Band 2 in Malaysian University English Test (MUET); **AND**
- Candidate do not have any disabilities (blind/colour blindness/physical disabilities) that hinder physical/laboratory work.

## COURSE FEES

Malaysian student **RM 42,128.00**

International student **RM 54,040.00**

The fee is to be paid in eight (8) semesters. Students will have to pay further administrative fees and recurring fees if they extend their studies.

Students are entitled to apply for PTPN at only 1% interest rate to cover the course fees. Alternatively, they can apply other external scholarship or education loan for undergraduate programme.

### For international students

- Obtained GCE A Level/Australian Matriculation Programme (AUSMAT)/ with at least Gred C in three (3) subjects as follows:
  - Mathematics
  - Physics
  - Chemistry/Further Mathematics/ Biology;**OR**
- Passed International Baccalaureate (IB) with a minimum score 26 and obtained at least score 4 in three (3) subjects at High Level (HL):
  - Mathematics
  - Physics
  - Chemistry/Further Mathematics/ Biology;**AND**
- Obtained atleast Band 2 in MUET/Band 5.5 in IELTS / score 500 in TOEFL PBT / score 59 in TOEFL IBT test; **AND**
- Applicant does not have any eyesight disabilities and/or physical disabilities which may affect physical / laboratory works

## CAREER PROSPECTS

Mechanical Engineer or related engineering works

# CONTACT US

**For further information about the programme, please contact:**

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