

BACHELOR OF MECHANICAL ENGINEERING WITH HONOURS

JPT/BPP (N/521/6/0179) 06/25



MAHSA
UNIVERSITY

FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



"A good scientist is a person with original ideas. A good engineer is a person who makes a design that works with as few original ideas as possible. There are no prima donnas in engineering."

- Freeman Dyson



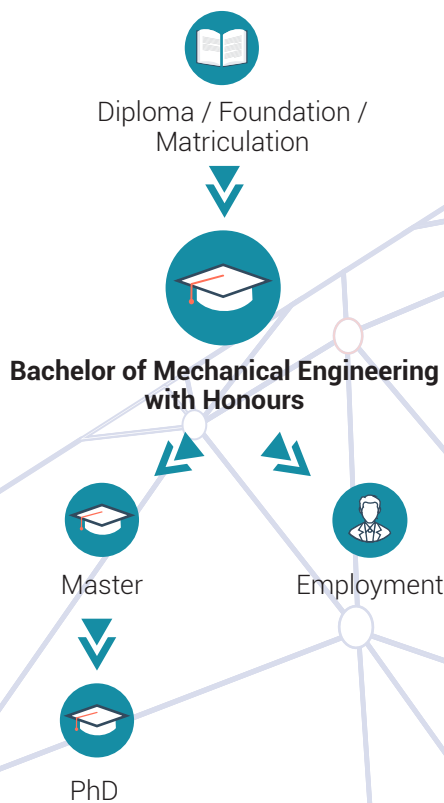
The Bachelor of Mechanical Engineering with Honours kindles the knowledge of the students in the field of mechanical and manufacturing. Mechanical Engineers play an important role in the future development of a sustainable environment. Engineers with are trained in logical thinking and critical analysis, enabling them to think and react professionally and be ready for any future challenges.

The Bachelor of Mechanical Engineering with Honours is a four-year programme, designed in consultation with a panel of experts and has been approved by the Engineering Accreditation Council Malaysia (EAC) and Malaysian Qualifications Agency (MQA).

Upon completion of Semester 1 to Semester 6, the students will proceed to industrial training at the end of Semester 6. At the end of the training, students will be required to submit a report while the industries are required to evaluate and report on the students' job performance. The industrial training is necessary to meet the requirements of accreditation by the Engineering Accreditation Council of the Board of Engineers Malaysia. Students are exposed to real work environment and gain experience and knowledge in writing reports on technical works and projects. This programme not only prepares students with necessary advanced theoretical and practical skills but also trains them to plan and manage projects strategically.

PROGRESSION PATHWAY

MAHSA 360



During their time at MAHSA University, we want to provide all of our students with the opportunity to develop qualities, skills and understanding that go beyond the disciplinary expertise and prepare them for the next steps in their chosen careers.

MAHSA360 is the ecosystem that works to ensure every single student is nurtured and supported throughout the student journey.

PROGRAMME STRUCTURE

YEAR 01

Electrical Technology
Engineering Experimentation 1
Engineering Drawing 1
Engineering Materials
Engineering Mathematics 1
Engineering Mathematics 2
Engineering Workshop
Introduction to C Programming
Materials Science
Statics

YEAR 03

Component Design
Control Engineering
Creativity and Innovation
Engineering Electronics and Microprocessors
Engineering Experimentation 3
Fluids Mechanic 2
Measurements and Instrumentation
Mechanics of Machines & Vibrations
Multimedia Application
Solid Mechanics 2
Thermodynamics 2
Industrial Training

YEAR 02

Dynamics
Engineering Drawing 2
Engineering Experimentation 2
Engineering Statistics
Fluid Mechanics 1
Introduction to Mechanical Design
Manufacturing Processes
Numerical Methods
Solid Mechanics 1
Thermodynamics 1

YEAR 04

Elective 1, 2, 3 and 4
Engineers in Society
Engineering Management, Economics and Safety
Industrial Engineering
System Design
Thesis 1
Thesis 2

GENERAL MODULES

Community Services
Entrepreneurship
Youth Development

Local Students

Hubungan Etnik
Tamadun Islam dan Tamadun Asia

International Students

Bahasa Melayu Komunikasi 2
Malaysian Studies

ELECTIVES

Acoustic and Noise - Control and Measurements
Material Processing
Material Selection
Nano-Materials
Production Planning & Control
Refrigeration & Air-Conditioning
Robotics
Vibration, Measurement

ENTRY REQUIREMENTS

Academic Qualification

Diploma / Matriculation / Foundation

STPM

A-Level

UEC

Other

Requirements

Related field pass with min. CGPA 2.0.

Pass with min. Grade C (GCPA 2.0) in three (3) subjects including Mathematics and one (1) Science subject.

Pass in three (3) subjects including Mathematics and one (1) Science subject.

Pass with Grade B in five (5) subjects including Mathematics and one (1) Science subject.

Recognised Malaysian qualifications or their equivalent.

MUET	IELTS	TOEFL
Band 4	6.0	550

CAREER OPPORTUNITIES

Aerospace engineer

Automotive engineer

Design engineer

Engineering consultant

Industry Engineer

Manufacturing engineer

Mechatronics engineer

Process engineer

Quality assurance engineer

Railways engineer

Research Executive



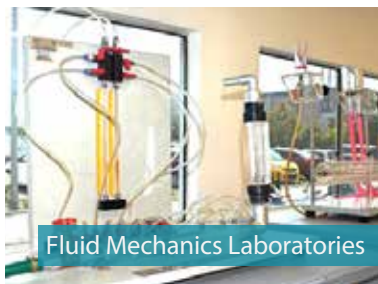
Library



The Habitat



Student Success Centre



Fluid Mechanics Laboratories



Lathe Machine



CNC Machine



Football Field



Workshop (fitting)



Residences

Contact us
1800 88 0300

marketing@mahsa.edu.my
www.mahsa.edu.my



MAHSA University



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MAHSA UNIVERSITY

BANDAR SAUJANA PUTRA CAMPUS

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MAHSA UNIVERSITY RECRUITMENT CENTRE (MURC):

MURC Penang

441-1-19, Plaza Pulau Tikus, Jalan Burma,
10350 Georgetown, Pulau Pinang

MURC Klang

Tingkat 4 Plaza Blossom, No.56 & 57, Jalan Tengku Kelana,
41000 Klang, Selangor

MURC Melaka

No 3-1, Jalan Komersial Takh 3, Taman Takh
Ayer Keroh, 75450 Melaka

MURC Kuching

No.191, Lot 1508, Ground & 1st Floor, Wisma Tek
93350 Kuching, Sarawak

MURC Kota Bharu

259 Tingkat 2 Jalan Kebun Sultan, Seksyen 8
15300 Kota Bharu, Kelantan