

BACHELOR OF CIVIL ENGINEERING WITH HONOURS

JPT/BPP (N/521/6/0177) 01/25



MAHSA
UNIVERSITY

FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



"A great bridge is a great monument which should serve to make known the splendour and genius of a nation; one should not occupy oneself with efforts to perfect it architecturally, for taste is always susceptible to change, but to conserve always in its form and decoration the character of solidity which is proper."

- Jean Perronet



The Bachelor of Civil Engineering with Honours is a four-year programme designed in consultation with a panel of experts and approved by the Engineering Accreditation Council Malaysia (EAC) and Malaysian Qualifications Agency (MQA). This programme is largely conducted in the MAHSA University campus with extensive exposure to laboratory work. The programme promotes student-centred learning, problem-based learning, and hands-on training which will help students develop critical thinking and problem-solving skills.

This programme not only equips students with advanced technical and practical skills but also teaches them to plan and manage a projects strategically. Students apply the knowledge they have learned from the course to study, analyse and address real-life industry requirements. The focus will be on imparting practical and theoretical knowledge required for gainful employment in industry.

Engineering modules provide the necessary industry application and technological skills which are very useful for employment. Students use their knowledge of strong critical thinking, analysis and teamwork to develop and apply relevant engineering skills. Upon completion of the first three years, the Capstone Design Project and other advanced modules will further enhance students' understanding in the fourth year.

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

Construction Materials and Technology
Engineering Drawing
Engineering Mathematics 1
Engineering Mathematics 2
Engineering Mechanics
Engineering Geology
Engineering Survey
Engineering Survey Lab
Introduction to C Programming
Strength of Materials

YEAR 04

Advanced Reinforced Concrete Design
Capstone Design Project
Civil-infrastructure Design
Construction Project Management
Engineer and Society
Estimating and Contract
Technical Elective 1
Technical Elective 2
Thesis 1
Thesis 2

YEAR 02

Building Services
Civil Engineering Lab 1
Civil Engineering Lab 2
Engineering Statistics
Fluid Mechanics
Hydraulics and Hydrology
Introduction to Environmental Engineering
Numerical Methods
Soil Mechanics
Structural Analysis 1
Structural Analysis 2

ELECTIVES

Advanced Steel Design
Advanced Hydraulics and Hydrology
Environmental, Safety and Health
Geo-environmental Engineering
Hazardous Waste Management
Pavement Analysis and Design
Pre-stressed Concrete Design
Retaining Structures
Shallow Foundation Engineering
Solid Waste Management
Traffic Analysis and Design
Transportation Planning
Water Resources Engineering
Water Supply and Sewerage

YEAR 03

Civil Engineering Lab 3
Creativity and Innovation
Foundation Engineering
Geotechnical Engineering
Highway Engineering
Industrial Training
Multimedia Application
Reinforced Concrete Design
Steel and Timber Design
Structural Analysis 3
Traffic and Transportation Engineering
Water and Wastewater Engineering

GENERAL MODULES

Community Service
Entrepreneurship
Youth Development
Local Students
Hubungan Etnik
Tamadun Islam dan Tamadun Asia
International Students
Bahasa Melayu Komunikasi II
Malaysian Studies

ENTRY REQUIREMENTS

Academic Qualification

Diploma / Matriculation / Foundation
STPM
A-Level
UEC
Other

Requirements

Related field pass with minimum CGPA 2.0.
Pass with min. Gred 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 Gred 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

English Proficiency

CAREER OPPORTUNITIES

Civil and Structural Engineer
Construction Engineer
Contractor
Environmental Engineer
Geotechnical Engineer
Hydraulic and Irrigation Engineer
Project Engineer
Project Manager
Site Supervisor
Site Engineer
Traffic and Transportation Engineer



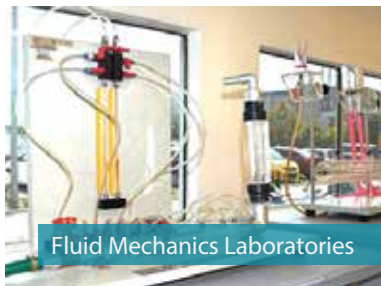
Library



The Habitat



Student Success Centre



Fluid Mechanics Laboratories



Mechanical Laboratories



Workshop



Football Field



Survey Laboratories



Residences

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MAHSA UNIVERSITY

BANDAR SAUJANA PUTRA CAMPUS

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Hotline : +603-5102 2200

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 Bahru, Kelantan