BACHELOR OF CIVIL ENGINEERING WITH HONOURS



KPT/JPS(N/521/6/0177)(MQA/PA9591)01/25

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."



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



Diploma / Foundation / Matriculation





Bachelor of Civil Engineering with Honours









Master

Employment





PhD



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 O 1

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

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

Strength of Materials

Numerical Methods Soil Mechanics Structural Analysis 1

Structural Analysis 2

Civil Engineering Lab 3

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

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 mininum 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

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

English Proficiency















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MAHSA University



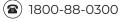
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