

OVERVIEW

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 learning, problem-based student-centred learning, and hands-on training which will help develop critical students thinking 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.

PROGRAMME

STRUCTURE

Vear 1

- Construction Materials and Technology
- Engineering Drawing
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Mechanics

Year 2

- Building Services
- Civil Engineering Lab 1
- Civil Engineering Lab 2
- Engineering Statistics
- Fluid Mechanics
- Hydraulics and Hydrology

Year 3

- Civil Engineering Lab 3
- Creativity and Innovation
- Foundation Engineering
- Geotechnical Engineering
- Highway Engineering
- Industrial Training
- Year 4
- Advanced Reinforced Concrete Design
- Capstone Design Project
- Civil-infrastructure Design
- Construction Project Management
- Engineer and Society
- Estimating and Contract

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- Technical Elective 1
- Technical Elective 2

- Engineering Geology
- Engineering Survey
- Engineering Survey Lab
- Introduction to C Programming
- Strength of Materials
- Introduction to Environmental Engineering
- Numerical Methods
- Soil Mechanics
- Structural Analysis 1
- Structural Analysis 2
- Multimedia Application
- Reinforced Concrete Design
- Steel and Timber Design
- Structural Analysis 3
- Traffic and Transportation Engineering
- Water and Wastewater Engineering
- Thesis 1
- Thesis 2

General Modules

- · Community Service
- Entrepreneurship
- Youth Development

MALAYSIAN STUDENTS:

- Hubungan Etnik
- Tamadun Islam dan Tamadun Asia

INTERNATIONAL STUDENTS:

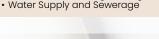
- Bahasa Melayu Komunikasi 2
- Malaysia Studies

Electives

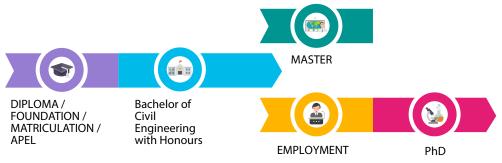
- Advanced Steel Design Advanced Hydraulics and Hydrology Environmental, Safety and Health Geo-environmental Engineering Hazardous Waste Management Pavement Analysis and Design Pre-stressed Concrete Design

- Retaining StructuresShallow Foundation Engineering
- Solid Waste Management
 Traffic Analysis and Design
 Transportation Planning

- Water Resources Engineering



PROGRESSION



REQUIREMENTS

ACADEMIC QUALIFICATION REQUIREMENTS

Diploma / Matriculation / Foundation • Related field pass with mininum CGPA 2.0.

STPM • Pass with min. Gred C (GCPA 2.0) in three (3) subjects including Mathematics and one (1) Science Subject.

A-Level ◆ Pass in three (3) Subjects including Mathematics, and one (1) Science Subject.

UEC • Pass with Gred B in five (5) Subjects including Mathematics and one (1) Science Subject.

Other • Recognised Malaysian qualifications or their equivalent.

English Proficiency ◆ MUET: BAND 2 | IELTS: 5.0 | TOEFL: 500



MAHSA360

At MAHSA University, we provide our students with the opportunity to develop quality skills and understanding that go beyond their field of study which will prepare them for their next leap upon graduation.

MAHSA 360 is our specially designed ecosystem that works to ensure every student is nurtured and supported throughout their student journey.



MAHSA's PASSPORT

TO SUCCESS

Professional Industry-Driven Education (P.R.I.D.E) is MAHSA University's specially designed education pathway that give students the best of both academic and professional certifications. Students have the opportunity to gain professional skills through various programmes from MAHSA's collaborations with internationally recognised professional bodies. P.R.I.D.E increases the employability rate of our fresh graduates and puts them on par with the rest in the professional world.

Professional

Masterclass

Mobility

MASTERCLASS

Students of this programme are eligible to gain add-on certification in Masterclasses. There are more than fifty Masterclasses to choose from, and all are designed to further enhance the student's employability, in line with the Industrial Revolution 4.0.

PROFESSIONAL COURSES

Through MAHSA's collaboration with internationally recognised professional bodies, students will earn certifications that will enhance their professional skills and increases their employability rate.

MOBILITY PROGRAMME

This is a unique opportunity for students to study abroad for up to one year. This programme lets students experience different cultures and practices from around the world. Ask us about our university partners in over fifty different countries.

MAHSA U N I V E R S I T Y BE MORE















Contact us **1800 88 0300**

www.mahsa.edu.my

Jalan SP2, Bandar Saujana Putra, 42610 Jenjarom, Selangor, Malaysia



1800-88-0300



+603-5102 2200



+603-79317118



) marketing@mahsa.edu.my

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