



**MAHSA**  
UNIVERSITY



# ***DIPLOMA IN* CIVIL ENGINEERING**

KPT/JPS (N/526/4/0125)(MQA/FA8417) 03/22

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**FACULTY OF  
ENGINEERING &  
BUILT  
ENVIRONMENT**

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“Engineering is the professional art of applying science to the optimum conversion of natural resources to the benefit of man.

– Ralph J. Smith

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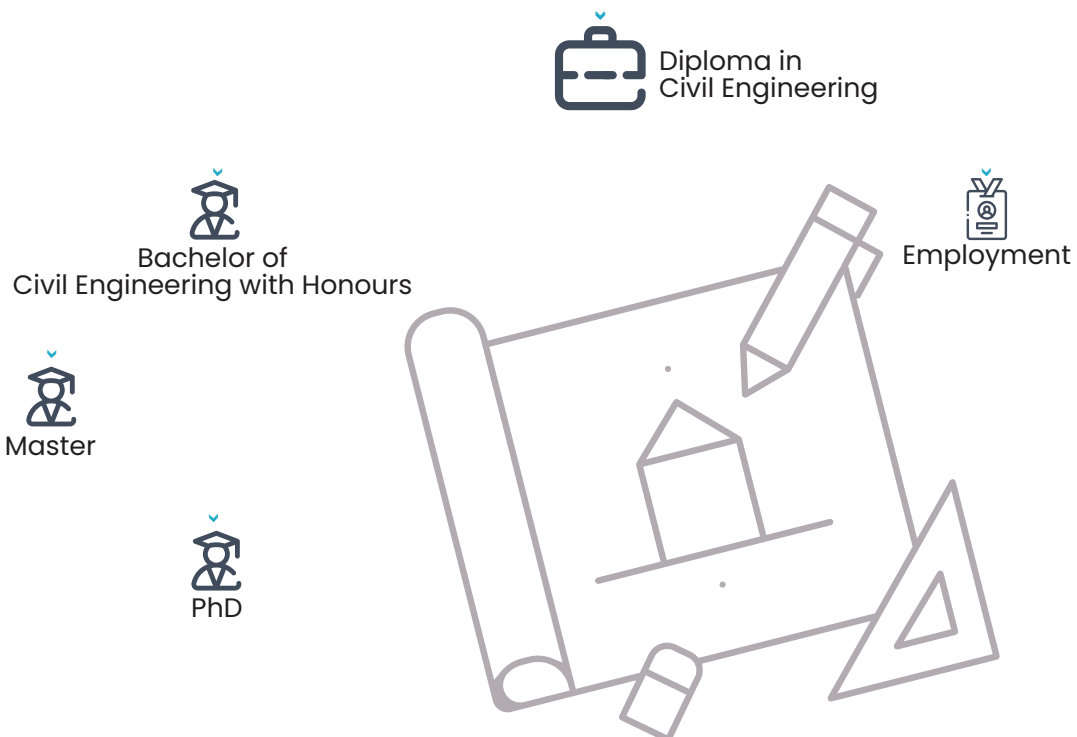


## OVERVIEW

The Diploma in Civil Engineering is a two and a half years programme that provide students with fundamental knowledge in civil engineering concepts of structure and construction. Students will enjoy the hands-on approach to structural engineering and infrastructure, and learn civil and structural drafting skills. These technical engineering skills are in high demand as construction projects grow across the globe.

## PROGRESSION PATHWAY

**SPM / 'O'-LEVEL / UEC**



# PROGRAMME STRUCTURE

## YEAR 1

- Building System and Services
- Civil Engineering Materials
- Civil Engineering Drawings
- Communicative English
- Engineering Mechanics
- Engineering Science
- Engineering Survey
- Estimating & Contracts
- Fluid Mechanics
- Science Laboratory
- Technical Mathematics 1
- Technical Mathematics 2

## YEAR 2

- Civil Engineering Lab 1
- Civil Engineering Lab 2
- Civil Engineering Lab 3
- Geotechnical Engineering
- Industrial Training
- Reinforced Concrete Design
- Soil Mechanics
- Steel and Timber Design
- Strength of Materials
- Structure Analysis
- Technical Mathematics 3
- Traffic & Highway Engineering

## YEAR 3

- Elective 1
- Elective 2
- Final Project
- Hydraulics and Hydrology
- Water and Wastewater Engineering

## CAREER OPPORTUNITIES

- Technical Assistant
- Assistant Site Engineer
- Assistant Project Manager
- Contract Executive
- Site Supervisor
- Assistant Resident Engineer
- Assistant QA/QC Engineer
- Project Planner



### ELECTIVE

Engineering Health and Safety  
Management for Engineers  
Project Management



### GENERAL MODULE

Co-curricular Project  
Creative and Critical Thinking  
Time Management

#### Local Students

Pengajian Malaysia 2

#### International Students

Bahasa Melayu Komunikasi 1

## ENTRY REQUIREMENTS

### Academic Qualification

### Requirements

SPM

Pass with minimum 3 Credits including Mathematics, 1 relevant science / technical / vocational subject and a pass in English

STPM

Pass in Mathematics, 1 relevant science / technical / vocational subject and a pass in English

Other

Recognised Malaysian qualifications or their equivalent



# 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 of the professional world.

### MASTERCLASS

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

### MOBILITY PROGRAMME

This is a unique opportunity for students to study abroad for up to one year in a foreign country. This study abroad programme lets students experience different cultures and

### PROFESSIONAL COURSES

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

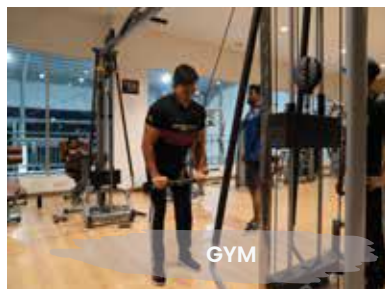


practices from around the world. Ask us about our university partners in over fifty different countries.

# MAHSA BE MORE



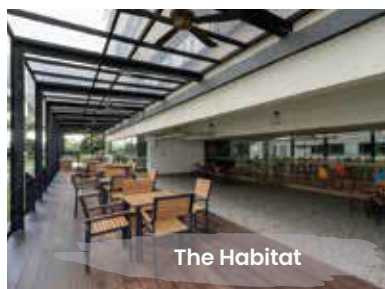
Sports Complex



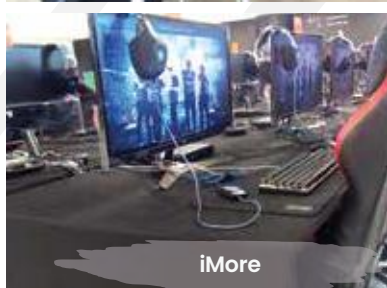
GYM



Library



The Habitat



iMore



Residences



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