



**MAHSA**  
UNIVERSITY



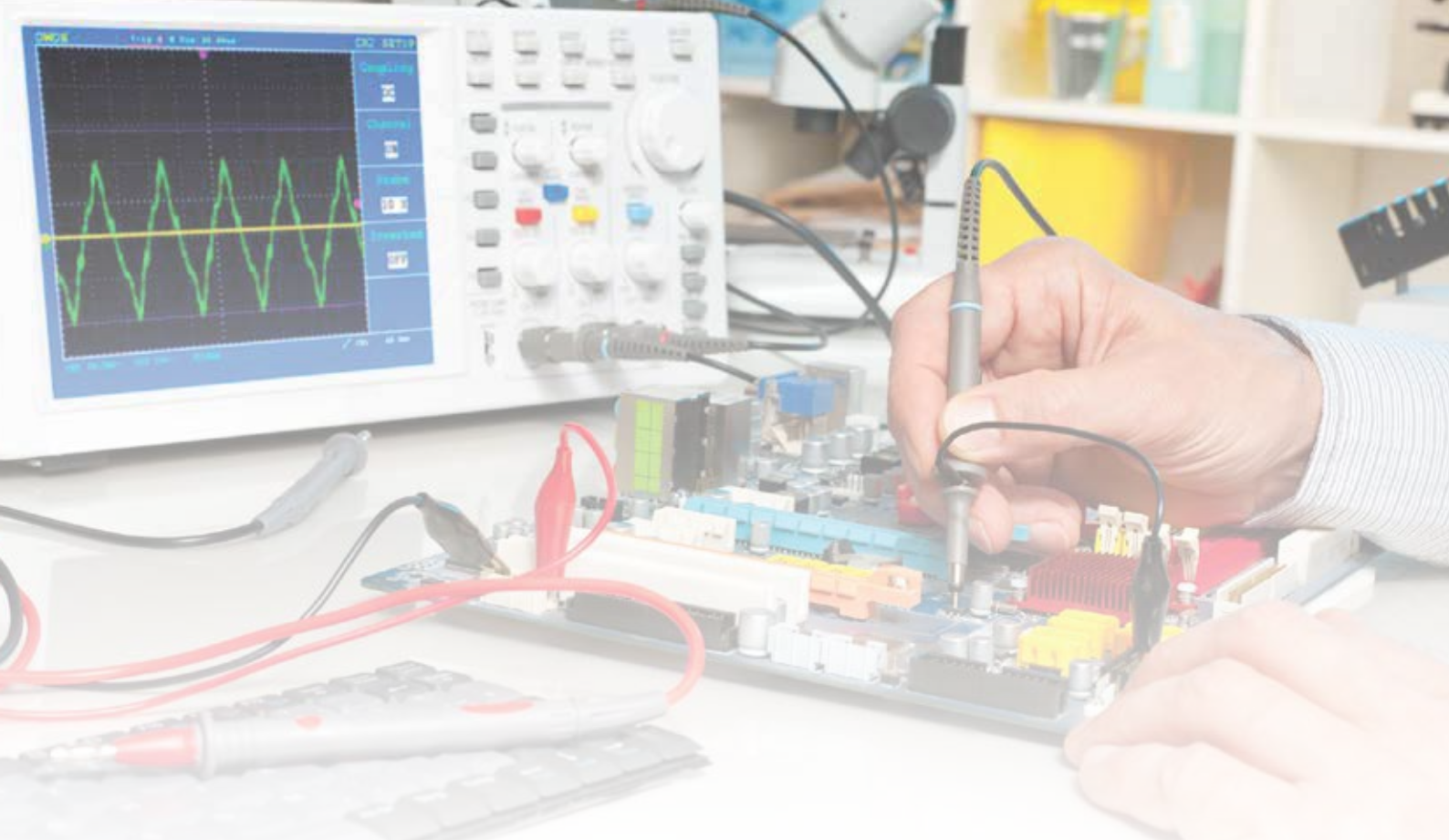
**DIPLOMA IN  
ELECTRICAL AND  
ELECTRONIC ENGINEERING**

KPT/JPS(N/523/4/0307)(MQA/PA9233)01/23

**FACULTY OF  
ENGINEERING &  
BUILT  
ENVIRONMENT**

If you want to find the secrets of the universe, think in the terms of energy,  
frequency & vibration

– Nikola Tesla

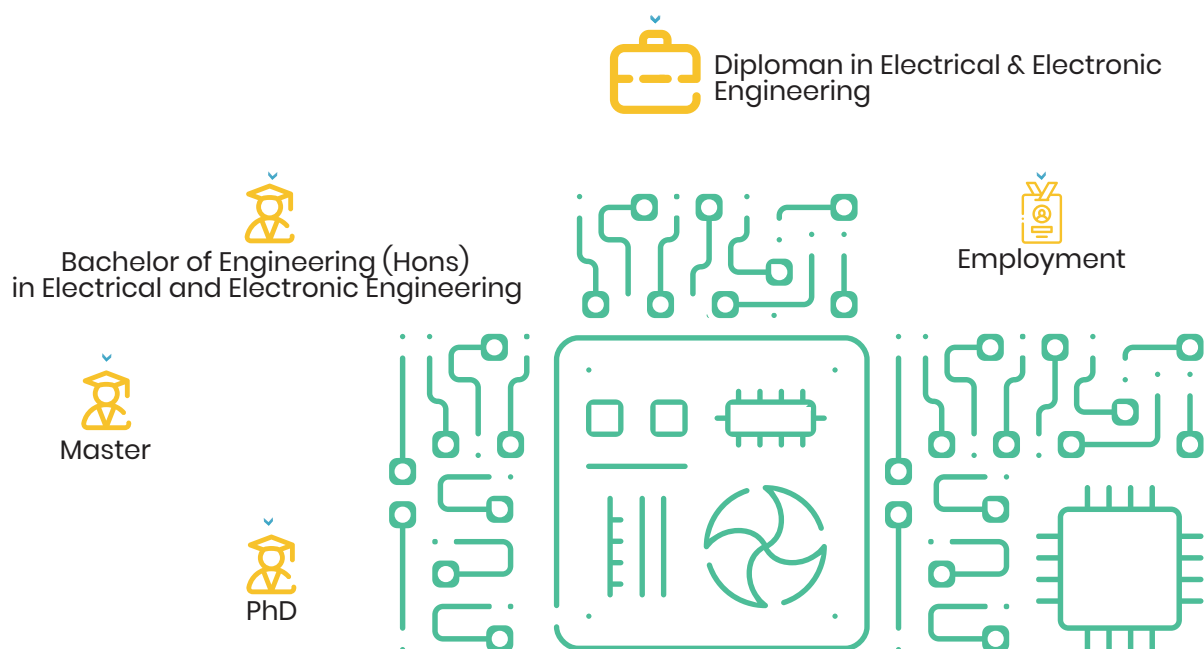


## OVERVIEW

The Diploma in Electrical and Electronic Engineering is a two-and-half-years programme that provides students with comprehensive knowledge in Electrical & Electronic Engineering theory and practice and equips them with a broad understanding of the relevant skills needed to meet the challenges in the electrical & electronics industry. Students will be well-trained in civil discipline, become multi-talented and competent in ICT, acquire managerial skills, and be readily adaptable to a multi-disciplinary work environment. Students will be given the opportunity to practise in the real work environment through industrial training provided in the programme, enhancing their employability.

## PROGRESSION PATHWAY

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



# PROGRAMME STRUCTURE

## YEAR 1

- Analysis of Circuits
- Basics of Electrical and Electronic Engineering
- Communicative English
- Technical Mathematics 1 & 2
- Electrical Engineering Workshop
- Engineering Drawing
- Engineering Mechanics
- Engineering Science
- Engineering Software Applications
- Introduction to C Programming
- Instrumentation and Measurements

## YEAR 3

- Engineering Health and Safety
- Elective 1 & 2
- Final Project
- Management for Engineers
- Programmable Logic Controller



### ELECTIVE

Electrical Energy Generation, Transmission and Distribution  
Embedded System  
Utilisation of Electrical Energy

## YEAR 2

- Analogue & Digital Electronics
- Communications & Controls Lab
- Control Systems Engineering
- Electronic Communication
- Electronics Lab
- Electrical Machines and Power Systems
- Electrical Machines Lab
- Industrial Training
- Microcontroller systems
- Maintenance of Electrical Equipment & Systems
- Power Electronics
- Technical Mathematics 3



### 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 min. three (3) credits including Mathematics, one (1) relevant Science / Technical / Vocational subject and pass in English.
UEC	Pass with min. grade B in three (3) Subjects including Mathematics, one (1) relevant Science / Technical / Vocational subject and pass in English.
O-Level	Pass with min. grade C in three (3) Subjects including Mathematics, one (1) relevant Science/Technical/ Vocational subject and pass in English.
SKMV	Pass with CGPA 2.0 and one (1) year related working experience or one (1) semester bridging programme.
CERTIFICATE	Pass Certificate in Engineering with CGPA 2.0.
Other	Recognised Malaysian qualifications or their equivalent.

## CAREER OPPORTUNITIES

- Assistant Electronic Engineer
- Assistant Project Manager
- Assistant Technical Factory
- Assistant Service Engineer
- Assistant Operation Engineer
- Electrical Charge-man
- Electrical & Electronic Technician
- Electrical Site Supervisor
- Designer Drawing
- Junior Layout Engineer
- Maintenance Technician
- Manufacturing Technician
- Technical Sales Engineer
- Technical Assistant
- Technical Specialist



# 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



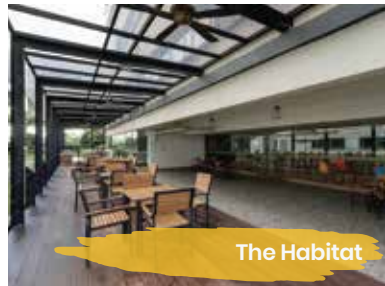
Sports Complex



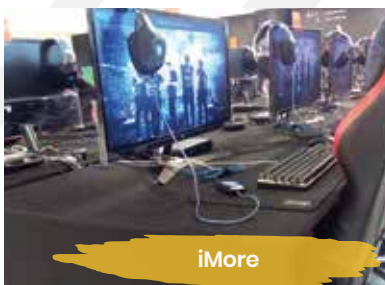
GYM



Library



The Habitat



iMore



Residences

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