

# DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

JPT/BPP (N/523/4/0307) 01/23



MAHSA  
UNIVERSITY

## FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY



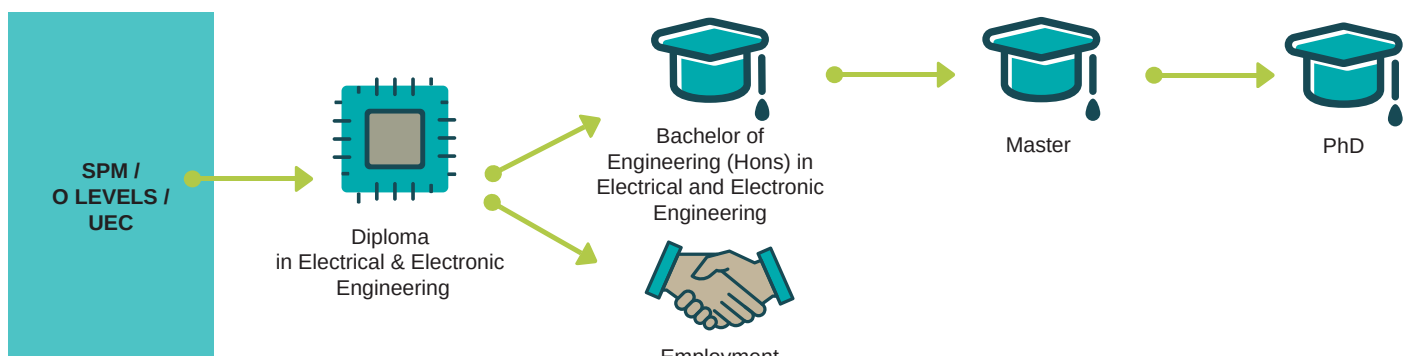
"If you want to find the secrets of the universe, think in the terms  
of energy, frequency & vibration"

- Nikola Tesla



The Diploma in Electrical and Electronic 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



## THE ECOSYSTEM

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.

MAHSA 360 is the ecosystem that works to ensure every single student is nurtured and supported throughout the student journey.



# PROGRAMME STRUCTURE

## YEAR 01

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 03

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

## ELECTIVES

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

## YEAR 02

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 MODULES

Co-curricular Project  
 Creative and Critical Thinking  
 Time Management

**Local Students**  
 Pengajian Malaysia 2

**International Students**  
 Bahasa Melayu Komunikasi 1

# ENTRY REQUIREMENTS

## Academic Qualification

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.

## English Proficiency

IELTS	TOEFL
5.0	500

# 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



Library



The Habitat



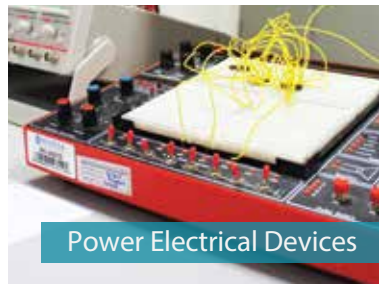
Student Success Centre



System Equipment



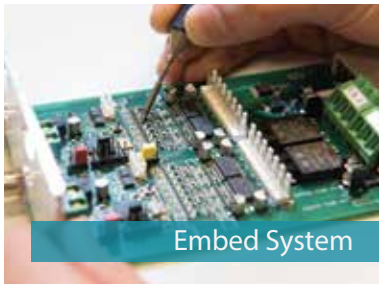
Analog and Digital



Power Electrical Devices



Football Field



Embed System



Residences

Contact us  
**1800 88 0300**

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[www.mahsa.edu.my](http://www.mahsa.edu.my)



MAHSA University



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# MAHSA UNIVERSITY

## BANDAR SAUJANA PUTRA CAMPUS

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

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