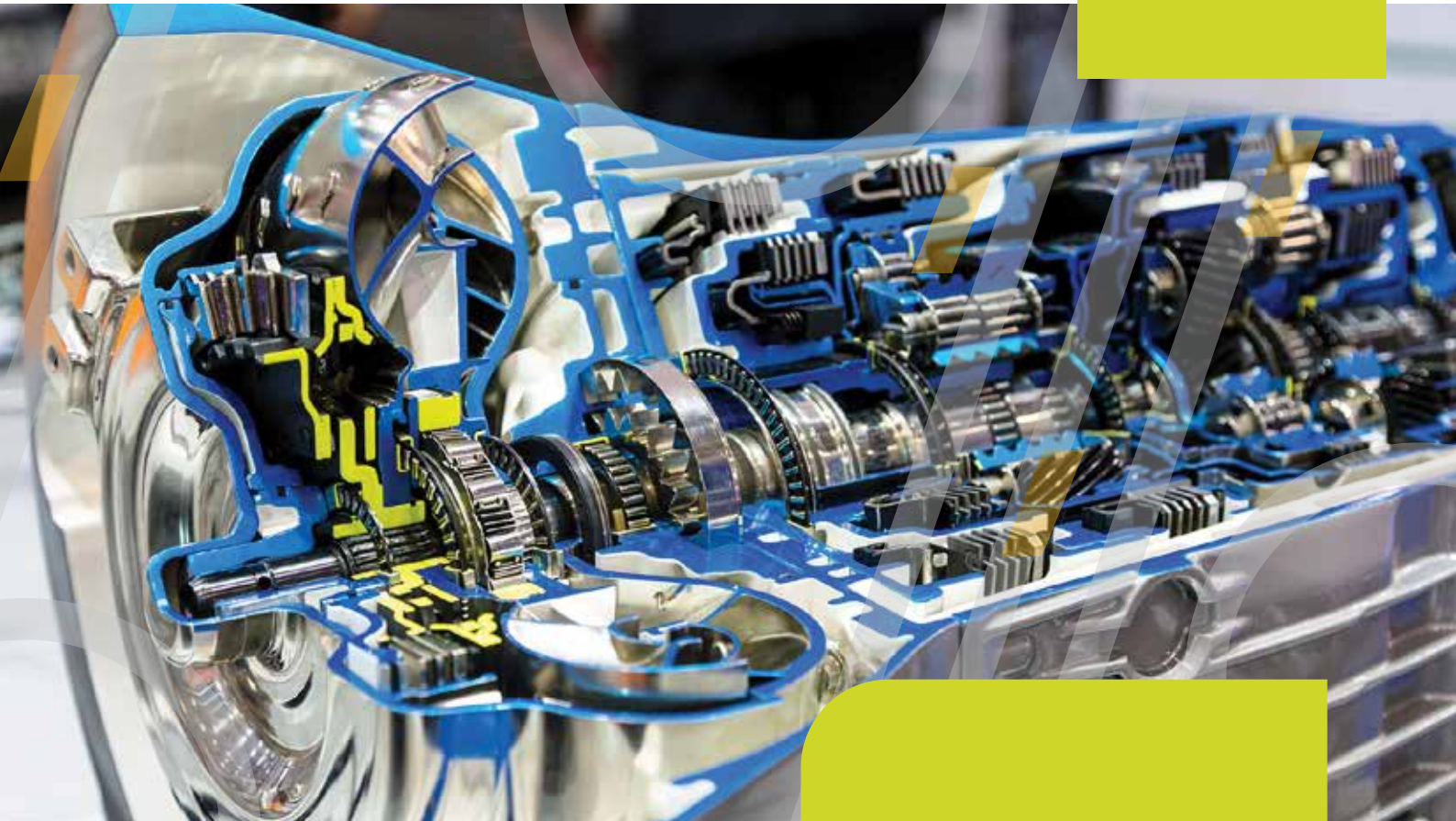




**MAHSA**  
UNIVERSITY

DU044(B)



*DIPLOMA IN*  
**MECHANICAL  
ENGINEERING**

KPT/JPS(N/521/4/0148)(MQA/PA8418)03/22

**FACULTY OF  
ENGINEERING &  
BUILT  
ENVIRONMENT**

Engineering is the science of economy, of conserving energy, kinetic and potential, provided and stored up by nature for the use of man. It is the business of engineering to utilise this energy to the best advantage, so that there may be the least possible waste.

– William A Smith



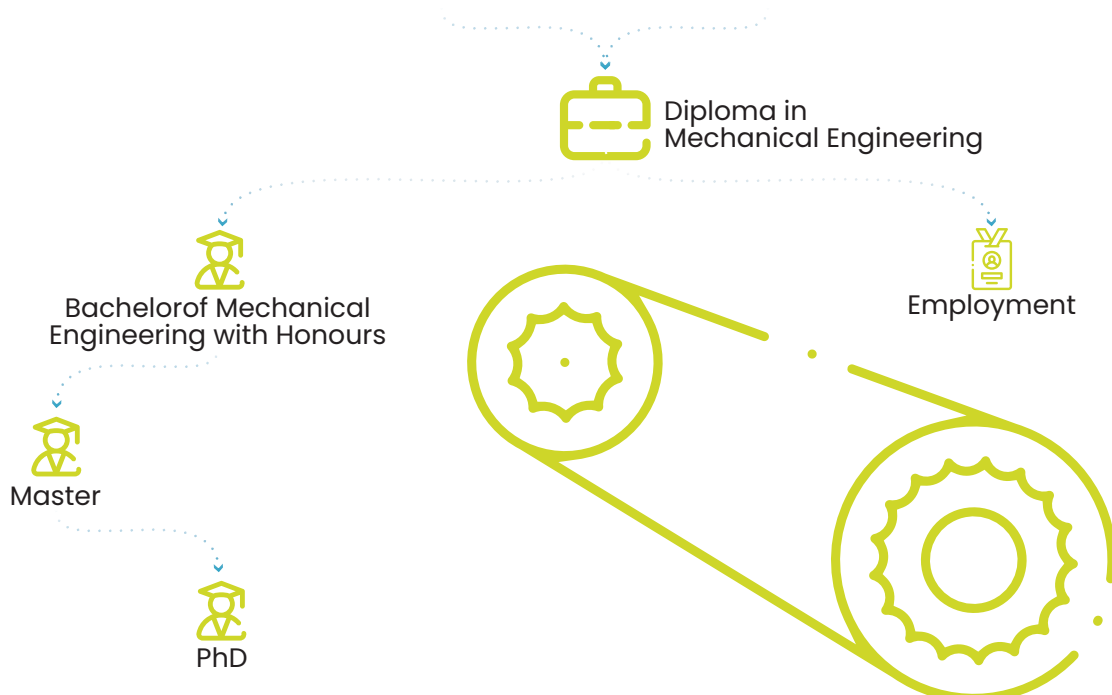
## OVERVIEW

The Diploma in Mechanical Engineering is a two-and-a-half-year programme and provides an opportunity for students to learn the necessary theoretical and practical skills for the mechanical and manufacturing industries. Mechanical engineering skills are highly needed as there is a shortage of technicians everywhere.

Mechanical engineering is a diverse and challenging field where students will use practical skills combined with innovative thinking to design and build mechanical devices, systems and machines.

## PROGRESSION PATHWAY

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



# PROGRAMME STRUCTURE

## YEAR 1

- Chemistry
- Communicative English
- Computer Programming
- Engineering Drawing
- Mathematics 1 & 2
- Material Science and Engineering
- Mechanical Technology Laboratory 1
- Physics
- Science Laboratory
- Statics

## YEAR 3

- Engineering Health and Safety
- Final Project
- Management for Engineers
- Mechanical Design 2
- Mechanics of Machines
- Mechanical Technology Laboratory 4
- Project Management

## YEAR 2

- Co-curricular Project
- Computer Aided Design
- Dynamics
- Fluid Mechanics
- Industrial Training
- Mathematics 3
- Manufacturing Technology
- Mechanical Design 1
- Mechanical Technology Lab 2 & 3
- Solid Mechanics
- Thermodynamics 1 & 2



### 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 Manufacturing Quality Engineer
- Assistant Mechanical Engineer
- CNC Machinist
- Junior Mechanical Engineer
- Maintenance Technician
- Mechanical Contractor
- Mechanical Designer
- Mechanical Supervisor
- Product Designers
- Production Technician
- Quality Control and Assurance Inspectors
- Service Technician
- Technical Executive
- Technical Sales Engineer

# 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

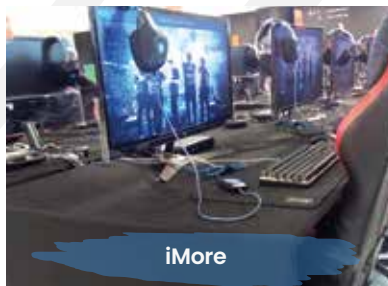
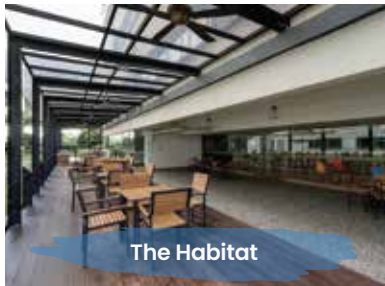
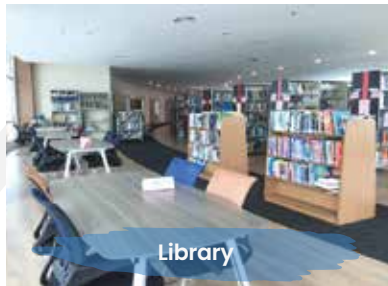
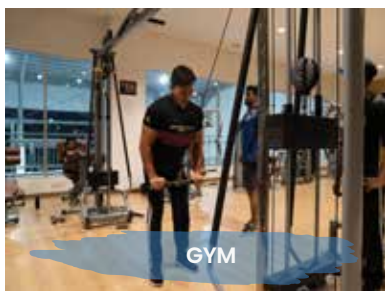
## PROFESSIONAL COURSES

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



## MAHSA UNIVERSITY

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