

PROGRAMME DETAILS:

Programme Code: R2/521/4/0025 (A8114) 05/22

Duration: 3 Years

Main Intakes: January, June and September

Awarding Body: Institut Teknologi Pertama

CAREER PROSPECTS:

Graduates are qualified to be mechanical engineering technicians in various industries such as manufacturing, sales, construction, inspection and maintenance.

PROGRAMME OVERVIEW

This programme examines the basic areas of mechanical engineering, design, materials and manufacturing technology, and aims to provide students with the skills and knowledge required for a career as a mechanical engineering technician. Specific areas of studies engineering principles, mathematics, computing, environment engineering, and material-sciences engineering. In addition, students will undergo an industrial training which will ideally expose them to work-based projects, giving them the change to achieve problem solving skills in an industrial setting.

ENTRY REQUIREMENTS

1. SPM / SPMV:

Pass SPM with minimum 3 credits in any subjects including Mathematics and any 1 relevant Science / Technical / Vocational subject and a pass in English; OR

2. UEC:

Pass UEC with minimum Grade B in any 3 subjects including Mathematics and any 1 relevant Science / Technical / Vocational subject and a pass in English; OR

3. O-Level or its equivalent:

Pass O-Level with minimum Grade C in any 3 subjects including Mathematics and any 1 relevant Science / Technical / Vocational subject and a pass in English; OR

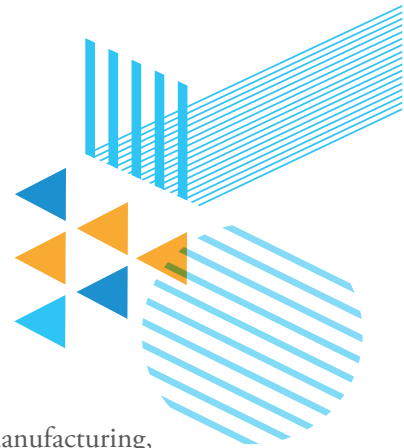
4. Certificate in Vocational and Technical / Skill or its equivalent with Level 3, MQF:

Pass Certificate in Vocational and Technical / Skill or its equivalent, Level 3 in MQF, with minimum CGPA of 2.00 with 1 year experience in related field or 1 semester of enhanced programme; OR

5. Certificate in Engineering / Engineering Technology (Level 3, MQF):

Pass Certificate in Engineering / Engineering Technology, Level 3 in MQF, with minimum CGPA of 2.00; OR

6. Other equivalent qualifications recognized by Malaysian Government.



AND

Students must pass:

- a) IELTS with a minimum band of 5.0; OR
- b) TOEFL with a minimum score of 500; OR
- c) Pass in Cambridge English/ Edexcel 'A' Level; OR
- d) Pass in English (O-Level or equivalent to SPM 1119).

Programme Structure

Year 1	Year 2	Year 3
<ul style="list-style-type: none">• Mathematics 1• Academic Communicative English 1• Principles of Physics• Computer Applications• Mathematics 2• Academic Communicative English 2• Statics• Programming with MATLAB• Materials Science• Engineering Drawing• Dynamics	<ul style="list-style-type: none">• Advanced Computer Aided Design Techniques• Mathematics 3• Mechanical Engineering Principles• Materials Engineering• Workshop Practice• Programmable Logic Controllers• Fluid Mechanics• Engineering Mathematics• Manufacturing Process• Thermodynamics	<ul style="list-style-type: none">• Machine Elements Design• Heat Transfer and Combustion• Mechatronic Systems Principles• Industrial Training• Project

As stated in the Circular from Ministry of Education No. 2/2013 with reference number JPT/GS1000-606Jld.1(25), all new students who enroll into any programme in any private institution after 01 September 2013 are required to complete and pass all the required General Studies Modules / Mata Pelajaran Umum (MPU).

