

## PROGRAMME DETAILS:

Programme Code: R/522/4/0026 (A8430) 10/17

Duration: 3 Years

Main Intakes: January, June and September

Awarding Body: Institut Teknologi Pertama

## CAREER PROSPECTS:

Graduates from this programme may venture to be electrical and electronic engineering technicians in various industries such as manufacturing, sales, construction, inspection and maintenance.

## PROGRAMME OVERVIEW

This programme provides students with a comprehensive knowledge of the theories and practices of electrical and electronic engineering. It is designed to provide a broad understanding of the industry, alongside a practical approach through the industrial training in the final year.

## 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.



*Candidates without a credit in Mathematics at SPM level or its equivalent may be admitted if the Certificate programme contains subjects in Mathematics that are equivalent to Mathematics at SPM level.*

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).

*If a student does not meet this requirement, HEPs must offer English proficiency courses to ensure that the student's proficiency is sufficient to meet the needs of the programme. This is normally conducted through an assessment process.*

## Programme Structure

Year 1	Year 2	Year 3
<ul style="list-style-type: none"><li>• Mathematics 1</li><li>• Academic Communicative English 1</li><li>• Computer Applications</li><li>• Mathematics 2</li><li>• Principles of Physics</li><li>• Academic Communicative English 2</li><li>• Introduction to Electrical Engineering</li><li>• Analogue Electronics</li><li>• Dynamics</li></ul>	<ul style="list-style-type: none"><li>• Electrical &amp; Electronics Principles</li><li>• Mathematics 3</li><li>• Programming with MATLAB</li><li>• Digital Electronics</li><li>• Digital &amp; Analogue Devices &amp; Circuits</li><li>• Electrical Power</li><li>• Engineering Mathematics</li><li>• Telecommunication Principles</li><li>• Programming Concepts</li></ul>	<ul style="list-style-type: none"><li>• Industrial Training</li><li>• Business Management Techniques</li><li>• Control Systems and Automation</li><li>• Electrical Machines</li><li>• Microprocessor and Microcontroller Systems</li><li>• Project</li><li>• Utilization of Electrical Energy</li></ul>

*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).*

