

MASTER OF ELECTRICAL ENGINEERING **(SUSTAINABLE ENERGY)** BY TAUGHT COURSE

MQA/FA8827

Register Now

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About UMP

Established as a technical university in 2002, Universiti Malaysia Pahang (UMP) offers a variety of engineering-and technology-based technical programmes, including high-level Technical and Vocational Education and Training (TVET).

Ranked as one of the best in Research and Innovation within the classifications of Malaysia Technical University Network (MTUN) and Non-Research University (Non RU), UMP is steadfastly committed to innovating and developing unique academic programmes through strategic international collaborations.

A milestone of such innovation is UMP's world class dual-degree engineering programme offered in collaboration with Germany's Karlsruhe University of Applied Sciences (HsKA) – now seen as the benchmark for other public institutions of higher learning in Malaysia. In the field of research, UMP collaborates with local industries to focus on industry-related applications. Such research collaboration enriches the teaching and learning modules at the university, while simultaneously promotes commercialization of research output and products.

Master of Electrical Engineering (Sustainable Energy) is an ideal program for graduates from engineering or other relevant backgrounds who have an interest in pursuing a successful career in research, technological change and the commercialisation of renewable energy systems. This program allows advancing your engineering proficiency and developing new skills and knowledge. Through the exploration of current and emerging technologies and applications for renewable energy, you will be prepared to make significant contributions to your professions, economy and society.

Course Structure

Semester 01	<ul style="list-style-type: none">• Research Methodology• Occupational Safety and Health & 6 Sigma• Numerical Method• Photovoltaic System Design• Power Electronics Design• Engineering Elective I
Semester 02	<ul style="list-style-type: none">• Energy Storage• Wind Energy System• Engineering Elective II• Engineering Elective III• Master Engineering Project I
Semester 03	<ul style="list-style-type: none">• Energy Management & Efficiency• Master Engineering Project II

Credit Hours

40
hours

Electives Courses

- High Voltage & Electrical Insulation
- Artificial Intelligence Applications in Power System
- Power Quality Grid Integration
- Vehicular Power Electronics
- Advanced Power System Analysis and Design
- Lightning Protection & Grounding System

Durations:
Full Time: 1 Year (max. 3 years)
Part Time: 2 Years (max. 6 years)



Course Fee

Estimated total fees

Local Student	MYR 14,475
International Student	MYR 25,425

* The above fees are only for full-time students for 3 semesters of study.

ENTRY REQUIREMENT

1. Bachelor's Degree (Honours) in a related field with a minimum CGPA of 2.50/4.00 or its equivalent; OR
2. Bachelor's Degree (Honours) in a related field with CGPA less than 2.50/4.00 or its equivalent, can be accepted subject to a comprehensive internal assessment and must meet the following criteria:
 - 5 years of work experience in a related field; OR
 - 1 year of work experience in a related field AND
 - Portfolio endorsed by faculty expert; OR
 - Obtain mini. B+ grade for three (3) core/elective courses; OR
 - Obtain at least Grade A- for final year project.
 - Candidates who are not in the related field must undergo appropriate prerequisite courses determined by the faculty.
3. APEL A Certificate (APEL T-7): Malaysian citizen of at least 30 years of age and possess at least STPM / A-level / Diploma / Equivalent qualification with relevant work experience.

English Requirement

International Student: IELTS Band 5.0 or MUET Band 3 or TOEFL Paper Based - 500 points, TOEFL Internet Based-Test (IBT) 60 or TOEFL Computer Based-Test(CBT) 173.

*The certification SHOULD NOT be more than 2 years.

- International students with Bachelor's and Master's from Malaysian Universities, English requirement is not needed and also to Malaysian students.

Location

Faculty of Electrical & Electronics Engineering Technology
Universiti Malaysia Pahang 26600
Pekan, Pahang, Malaysia

Career Path

Our postgraduates generally progress to exciting roles in design, research and development with multinational companies or government agencies, obtain consultancy posts with consultant companies or move into academic careers

Job options

- Sustainable energy-related consultant
- Academic post
- Design engineer
- Energy manager
- Energy auditor
- Research engineer
- Senior electrical engineer

Entry Requirement