

MASTER OF MECHATRONIC ENGINEERING

MQA/PA 15931

Register Now

<http://ips.ump.edu.my>

Contact Us

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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.

Durations

1 ½ years
(18 months)

Credit Hours

40
hours

Elective Courses (choose one stream)

Robotics stream

Rehabilitation Robotics, Mobile Robots, Robotics Solution (Lean Manufacturing)



Smart Farming stream

Environmental Technologies, Crops/Live Stock Production Technologies, Computing and Monitoring in Smart Farming



Sports Technology stream

Product Development in Sports, Computer Simulation for Sports Equipment, Biomechanics and Motor Control



Course Structure

Semester

01

- Research Methodology
- Advanced Operation Research
- Digital Signal Processing
- Applied Machine Learning
- Industrial IOT

Semester

02

- Deep Learning
- Machine Vision
- Elective 1
- Project Dissertation 1

Semester

03

- Elective 2
- Elective 3
- Project Dissertation 2



Location

Faculty of Manufacturing and Mechatronic Engineering Technology, Pekan Campus.

Course Fee

Estimated total fees



Local

MYR 18,235



International

MYR 30,085

Entry Requirement

A bachelor's degree in mechatronics/ mechanical/ manufacturing/ electrical/ electronic/ computer engineering or engineering technology with minimum CGPA of 2.50 or equivalent, as accepted by the University Senate.

or

A bachelor's degree in mechatronics/ mechanical/ manufacturing/ electrical/ electronic/ computer engineering or engineering technology not meeting CPA of 2.50 can be accepted subject to a minimum of five (5) years working experience in the relevant fields.

or

Candidates without a qualification in the related fields or working experience in the relevant fields must undergo appropriate prerequisite courses determined by the HEP with a grade of B or higher and meet the minimum CGPA based on (i) to (ii). The prerequisite courses are Computer programming and Fundamental of Electrical and Electronics.

APEL

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

Local candidate with bachelor's degree from Malaysia Universities are considered comply with the English requirement.

International candidates- IELTS band 5.0 or TOEFL 500