

DOCTOR OF PHILOSOPHY (ENGINEERING)

Structure A

Course Overview

Doctor of Philosophy (Engineering) is a research-focused doctoral program that allows individuals to delve deeply into a specific area of engineering and contribute original knowledge to the field. Doctoral candidates work closely with faculty advisors to formulate research questions, design experiments, and conduct in-depth investigations.

Engineering challenges often require interdisciplinary approaches and we require our PhD students to publish their findings in peer reviewed journals/conferences



Entry Requirements

- A master's degree in the field or related fields accepted by the HEP Senate; or
- Other qualifications equivalent to a master's degree recognized by the Government of Malaysia.
- Candidates without a related qualification in the field/s or working experience in the relevant fields must undergo appropriate prerequisite courses determined by the HEP.
- For international students: Test of English as a Foreign Language (TOEFL) score of 500 or International English Language Testing System (IELTS) score of 5.0 or its equivalent.

A bachelor's degree with the following conditions:

- A bachelor's degree in the field or related fields with first-class (CGPA of 3.67 or higher) or its equivalent from an academic or Technical and Vocational Education and Training (TVET) programme;
- Undergo internal assessment; and
- Any other requirements of the HEP.

Bachelor's degree candidates who are registered for master's degree programmes may apply to convert to the doctoral degree programmes subjected to the following conditions:

- Within 1 year for full time and within 2 years for part-time candidates;
- Having shown competency and capability in conducting research at doctoral level through rigorous internal evaluation by the HEP; and
- Approval of the HEP Senate.

Duration

- **3 – 7 Years** (Full time)
- **4 – 7 Years** (Part time)

Fees Structure

- **RM 5,600.00** (Malaysian)
- **RM 6,100.00** (International)

Key Research Areas

Electrical and Electronics Engineering:

Automation and Embedded Computing System, Communication Systems and Networks, Micro and Nano Engineering, Photonics Technologies, Radio Frequency and Microwave Engineering, Signal Processing and Control Systems, System and Machine Intelligence, Distributed Generation, High Voltage Systems, Power Quality, Power System Analysis, Renewable Energy and Energy Efficiency, Smart Grid.

Mechanical Engineering:

Advanced Materials, Computational Fluid Dynamics, Heat and Mass Transfer, Mechanical Design, Mechanics and Vibration, Mechatronics, Control and Automation, Nuclear Engineering, Power Plant Technology, Renewable Energy, Robotics, Thermal System and Energy.

Civil Engineering:

Asset Management, Construction and Building Materials, Environmental and Wastewater Engineering, Forensic Engineering, Geotechnical and Geological Engineering, Highway and Transportation Engineering, Hydropower and Dam Engineering, Project Management, Structural Engineering, Water Resources Engineering.



CONTACT US

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