



MAHSA
UNIVERSITY

DU044(B)



Faculty of Engineering, Built Environment
& Information Technology

(N/0611/8/0009) (MQA/PA 16975) 01/31

PhD IN INFORMATION TECHNOLOGY

PROGRAMME OVERVIEW

The proposed PhD in Information Technology is to prepare individuals for the generation of new knowledge in the advanced and applied aspects of Information Technology research by considering IR4.0 Technology. The program has the objective of training students through intensive research. Graduates will demonstrate a capacity to design, conduct and report sustained and original research with emphasis on current industry demands. While the research is conducted under the supervision of the eligible academic advisor, students are expected to demonstrate the ability to work independently.

- The PhD in Information Technology has been conceived to focus on issues and matters on the existing and future in the various industrial sectors and services.
- We focus is to develop graduates who are capable of adapting to the global changes and current development which inculcate important values including:

- Leadership,
- Social responsibility,
- Scholarship,
- Community involvement,
- Ethical values and
- Professionalism.

The programme aims to provide graduates with the ability to carry out advanced research in their fields and solve complex problems. At the same time, it aims to facilitate discovery and contribute to Modern knowledge and Sustainable solution.

PEO

To produce competent graduates who are able to:

- PEO 1** Utilise innovative **methodologies, models and techniques** to generate new ideas by applying modern research knowledge.
- PEO 2** **Communicate** efficiently to express information, problems and solutions within social, ethical and legal responsibilities.
- PEO 3** Demonstrate interpersonal and **entrepreneurial skills** for lifelong learning, research and career development in line with modern industry demands.

PLO

	Key idea	Programme Learning Outcome (PLO) At the end of the programme, students should have the ability to:	Domains
PLO 1	Advanced Knowledge	Demonstrate a critical and in-depth understanding of frontier knowledge by generating substantial and original contributions to a field and/or practice;	Cognitive
PLO 2	Apply knowledge in the field	Synthesise existing and new knowledge in one or more discipline areas to develop new concepts or interpretations or applications;	Psychomotor
PLO 3	Modern Tools Usage	Conduct rigorous and independent research or investigation with minimal supervision;	Psychomotor
PLO 4	Society	Demonstrate intellectual leadership qualities and management skills;	Affective
PLO 5	Ethics	Perform research adhering to legal, ethical, professional and sustainable practices;	Affective
PLO 6	Individual and Team Work / Communication	Communicate cogently in the field/s and interact with specialist and general audience;	Affective
PLO 7	Problem Solving	Select and use suitable digital and analytical techniques to research problems; and	Cognitive
PLO 8	Long Life learning	Demonstrate commitment to lifelong learning and personal development.	Affective

Duration:

- Full time: Min 3 years Max 6 Years
- Part time: Min 4 Years Max 8 Years

Programme Structure:

- Fully research
- The students need to pass on course only (Research methodology)
- The students need to the present their yearly research progress

Intake:

- Any time during the year

Career Prospects & Opportunities

Jobs directly related to your degree include:

- Researcher
- Industry R & D
- Lecturer

Internship

NIL

Testimonials

NIL

Entry Qualification:

LEVEL/ SUBJECT

- Master Degree

General requirement and min. number of credits required

- A Master's Degree or equivalent AND candidates must have completed at least ONE (1) of their earlier Degrees (Master's or Bachelor's) in Computing or related to computing.
- International students must have proof of good proficiency in verbal and written English. For example, International English Language Testing System (IELTS) score of 6.0 or its equivalent. 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.

Note for PhD by Research:

- There shall be no direct entry from Bachelor's Degree level to PhD level.
- Candidates registered for Master's Degree by research programmes with a Bachelor's Degree level may apply to convert their candidacy to the PhD programmes subject to having shown competency and capability in conducting research at PhD level and approval by the HEP Senate.
- Approval by the HEP Senate.

Progression Pathway

- Master of Engineering
- PhD in Engineering

PRIDE Add-Ons (Assured by City & Guilds)

NIL

Facilities

How does MAHSA students get to build their career experience through the utilisation of MAHSA's own amenities (if any).

Laboratories are fully equipped for any research activity related to engineering fields.

Beside, MAHSA running various projects which students may complete their research by involving on those projects as a real case studies.

As such, we can mention on MAHSA Hospital project, which the students can apply their knowledge on such a huge construction project.

Additionally, MAHSA Eco Village project, which is the real application of IR4.0 and green tech technologies and the students may develop their proposal based on the projects running for this modern village and it should be highlighted that MAHSA allocated appropriate funding for any project related to MAHSA hospital and MAHSA Eco-Village.





MAHSA UNIVERSITY BE MORE

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