



# DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE AND TECHNOLOGY

[N/0613/8/0005] 06/29 [MQA/PA 17216]

## DURATION OF STUDY

Full-time: Min 3 years, Max 5 years  
Part-time: Min 4 years, Max 8 years

## INTAKE

February/ April/ September

## MODE OF STUDY

Research

## ANNUAL FEE

RM 18,000 (Local) RM 22,000 (International)

## ABOUT THE PROGRAMME

Doctor of Philosophy in Computer Science and Technology is the first PhD programme offered by the School of Computing and Data Science (SCDS). It provides a platform to nurture talents in innovative and cutting-edge research for the next generation. This PhD programme is open to all potential students with diverse computing backgrounds, include but not limited to Information Systems, Cybersecurity, Data Science, Artificial Intelligence, Computer Science, Computer Engineering, Digital Media Technology, and Software Engineering. This programme covers advanced topics such as:

- Algorithms & Theory
- Artificial Intelligence (AI)
- Software Technology
- Databases
- Parallel Computing
- Networking and Distributed Systems
- Human-Computer Interaction (HCI)
- Digital Media Technology
- Computer Graphics
- Multimedia Information Retrieval
- Computer Security/Cyber Security
- System Security
- Network Security

Students in this programme have the opportunity to deepen their expertise through rigorous research projects, collaborative endeavours with esteemed faculty mentors, and access to cutting-edge facilities and resources. By engaging in these activities, they not only expand their knowledge base but also cultivate critical research skills and methodologies essential for academic and industry leadership roles.

Additionally, students are encouraged to participate in international competitions and to publish their research in reputable journals and conferences, helping them gain recognition and further establish their expertise in the field. The programme also fosters collaboration with other universities, providing students with broader research opportunities and exposure to a diverse range of academic perspectives.

## PROGRAMME HIGHLIGHTS

- Supervision and guidance from experienced faculty members.
- Emphasis on research and thesis writing under the mentorship of dedicated supervisors.
- Access to advanced facilities and laboratories.
- Participation in seminars, workshops, and conferences to enhance academic and professional development.
- Preparation for diverse career paths in academia, industry, and research.

## CAREER OPPORTUNITIES

Graduates of the programme have diverse career opportunities across industries such as research, academia, and technology-driven sectors. Potential roles include as follow:

- Data Scientist
- Machine Learning Engineer
- Cybersecurity Analyst
- Systems Architect
- Database Administrator
- Cloud Engineer
- AI Researcher
- IT Consultant
- DevOps Engineer
- Full-Stack Developer
- Product Manager
- Business Analyst
- Research Scientist
- IT Project Manager

They can pursue employment in private organizations, government sectors, academic institutions, and research facilities, among others.

# Doctor of Philosophy in Computer Science and Technology

## ENTRY REQUIREMENTS

*\*For other equivalent qualifications, please consult our programme counsellor*

- A Master's degree (Level 7, MQF) in the field of Computing or related fields as accepted by the HEP Senate; OR
- A Master's degree (Level 7, MQF) in non-computing fields with a minimum of FIVE (5) years of working experience in the field of computing or related fields must undergo appropriate prerequisite courses as determined by the HEP; OR
- A Master's degree (Level 7, MQF) in non-computing fields with less than FIVE (5) years of working experience in the field of computing or related fields must undergo appropriate prerequisite courses as determined by the HEP and subject to rigorous internal assessment; OR
- Other qualifications equivalent to a Master's degree in the field of Computing or related fields recognised by the Government of Malaysia must undergo appropriate prerequisite courses as determined by the HEP.

### English Competency Requirement (International Student):

Achieve a minimum score of 6.0 in the IELTS or equivalent. If a student does not meet this requirement, the HEP must offer English proficiency courses to ensure that the student's proficiency is sufficient to meet the needs of the programme.

## LIST OF COURSES OFFERED

### Main Courses

- Research Methodology
- Thesis

### Additional Requirement

- \* Chinese 1
- \* Selected topics on China

Students with credits in Chinese courses in previous result slips (UPSR/ STPM/ UEC/ A-Level/ Foundation/ Matriculation/ Diploma/ SPM/ O-Level/ HSK, etc.) can be exempted from Chinese 1.

\* No additional tuition fee imposed.



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The information in this brochure is correct at the time of publication. Xiamen University Malaysia (XMUM) reserves the right to change the information in line with updates from time to time. Please check the website (www.xmu.edu.my) for latest information.

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