Doctor of Software Engineering

MQA/SWA0645

"WITHIN SOFTWARE THERE IS ETERNAL INTELLIGENCE"

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📍 Level 7, Menara Razak,
Universiti Teknologi Malaysia,
Kuala Lumpur, MALAYSIA

PROGRAMME OVERVIEW

The Doctor of Software Engineering

programme is designed for an applicant who would like to gain experience, skills and expertise in software engineering and would apply them to evaluate and solve the industry problems. The 97-credit study curriculum for mixed-mode offers a few guided courses to help students gain relevant experience and skills for research purposes. The curriculum will prepare students to cultivate new concepts and critical thinking to improve the level of knowledge that will support the industry and the research community. The student will be attached to the industry under joint supervision between the university and the industry to facilitate students' research activities better. Under joint supervision between university and industry, the student will be attached to the industry to facilitate student research activities better.

ENTRY REQUIREMENTS

A Master's Degree in Computer Science, Software Engineering, Information Technology, Mathematics, Science or related disciplined from Universiti Teknologi Malaysia or any other Institutions of higher learning recognised by the Senate;OR

Other qualifications equivalent to a Master's degree and experience in the relevant field recognised by the Senate; OR

Candidates who currently registered in a Master's Degree programme at Universiti Teknologi Malaysia, and approved by the Graduate Studies Committee of the respective faculty and the Senate.

Additional requirement for International Applicants
An English Certificate of IELTS with the minimum band of 6.0 OR TOEFL with the minimum score of 550

CORE COURSES

- Research DSE 1 to 5
- SE Research Paradigm
- DSE Research Proposal
- SE Research Methodology
- SE Research Topic Seminar & Discourse
- 1 University General Course

ELECTIVE COURSES

- Real Time System
- Advanced Software Design
- Advanced Software Testing
- Advanced Software Modelling
- Empirical Software Engineering
- Advanced Software Process Improvement
- Software Development Reference Framework

CAREER OPPORTUNITIES

- System Analyst
- System Engineer
- Software Designer
- Software Engineer
- Software Architect
- Software Researcher
- Software Maintainers
- Software Test Engineers
- Software Project Manager
- Software Quality Engineers
- Software Process Engineers
- Software Configuration Manager

✓ MIXED-MODE

↗ Intake: February and September

🕐 Min Duration: 3 years (6 semesters)
Max Duration: 8 years (16 semesters)

📅 Package 1: Weekdays Class
Package 2: Weekend Class

"Keeps me on track.."

❝ During my study time, there were times where I was lost, and my supervisor was the one who put me back on track. As the student, you have freedom of choice in your research area, and my supervisor assigns enough consultation time for you; even with his busy schedule. ❞

DR. KHALIL SALAH
Senior Software Development Manager
RES Malaysia Sdn Bhd

"So enjoyable..!"

❝ Doctor of Software Engineering is a special program designed for those in the software engineering field. I have collaborated with my academic and industrial supervisors that have helped make my research journey enjoyable. I am happy to join this great university and had a great rapport with supportive, friendly people. ❞

DR. MERVAT ADIB BAMIAH