UTM | Razak Faculty of Technology and Informatics

UNIVERSITI TEKNOLOGI MALAYSIA

Master of Software Engineering

MQA/SWA0366

"SOFTWARE IS A GREAT COMBINATION BETWEEN ARTISTRY AND ENGINEERING"

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

PROGRAMME OVERVIEW

Master of Software Engineering

This programme is designed to equip students with the skills needed to develop and maintain large and complex systems or applications. Students will analyse user requirements, design, test and develop software by applying theories and principles of software engineering. Students will have a good understanding of the latest tools and processes for software design and development as well as get practical exposure. It aims to produce dedicated software professionals who are capable of leading a software development team, adhering to the International Standards. This programme also aims to expose software engineers with industrial experiences in real working.

ENTRY REQUIREMENT

A Bachelor's Degree in Computer Science, or Software Engineering, or Information Technology, or Engineering, or Math, or Science with good honours from Universiti Teknologi Malaysia or any other institution of higher learning recognised by the Senate; OR

A qualification equivalent to a Bachelor's Degree as per above area and experience in the relevant field recognised by the Senate.

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

⊘ COURSEWORK (45 CR)

↗ Intake: February and September

📅 Package 1: Weekdays Class
1.5 years (3 semesters)-4 years (8 semesters)
Package 2: Weekend Class
2 years (4 semesters)- 4 years (8 semesters)

CORE COURSES

- Software Design
- Software Construction
- Software Requirements
- Software Quality Assurance
- Software Engineering Project
- Software Project and Configuration Management
- Research Methodology
- 1 University General Course

ELECTIVE COURSES

- Special Topic
- Software Metric
- Test Management
- Technical Test Analysis
- Advanced Software Testing
- Empirical Software Engineering
- Secure Software Development
- Software Process Improvement

MASTER PROJECT

- Master Project 1
- Master Project 2

CAREER OPPORTUNITIES

- System Analyst
- Software Teste
- Software Engineer
- Software Designer
- Software Maintainer
- Software Quality Engineer
- Software Project Manager
- Software Process Engineer
- Academician or Researcher
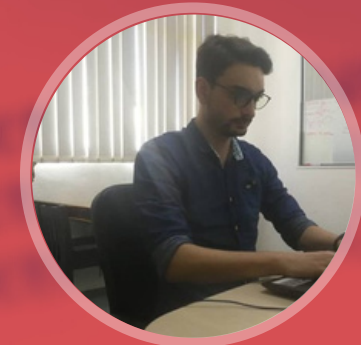- Software Configuration Manager

"Learned vital insights .."

"The Master's program has given me vast experience in software engineering and its applications. I learned vital insights from this program and the industrial attachment, including agile methods in software development and numerous related subjects. The hands-on industry understanding and the academic knowledge provided me with an ongoing cutting-edge learning experience."

MUHD MOHAIMINUL ISLAM
Full Stack Developer
Jirnexu Sdn. Bhd

"Develop my current career.."

"Having had a good background in the programming and computer sectors, taking my Master of Software Engineering course was my next step in studying software engineering from a higher viewpoint. Furthermore, this programme was ideally merged between academic and practical areas. This has helped me to understand the tech industry better and develop my current career."

BASSEL SUMMAK
Senior Android Developer
TheLorry.com