School of Engineering
Bachelor of Software Engineering (Honours)

eng.monash.edu.my
Software is everywhere. It does everything from dispensing medicine to controlling flight paths to monitoring and shaping our shopping habits. Our world’s major companies, governments and organisations depend on smartly designed and well-built software.

And they rely on the expertise of skilled software engineers to make it happen.

As a software engineer, you will apply engineering principles to systematically analyse, develop and improve software to ensure it runs effectively, safely and securely.

Course overview

This program focuses highly on the current industry-strength programming languages, technologies and systems in the form of practical components, electives and projects.

Year One

The common Level One lays a foundation in the basic sciences of mathematics, physics and chemistry and introduces the disciplines available to you for further study. You will learn to apply your developing maths and science knowledge to real-life problems and begin to understand the interaction between engineering and society.

Year Two and Three

Depending on academic performance and quotas, you can pursue a specific discipline from your second year of study.

Level Two and Three are designed to develop core professional skills. These include:

- Software construction and maintenance principles
- Fundamental software processes and life-cycles
- Mathematical foundations of software engineering
- Software engineering methodologies and standard notations
- Principles of software architecture and re-use
- Software quality frameworks and validation
- Maintenance environments and tools

After the third year of study, students must undergo training in an industrial-based environment, as required by the Board of Engineers Malaysia’s Engineering Accreditation Council. After the 12-week training, students must submit a written report, detailing their work experience.

Year Four

Level Four is seen as a period of specialisation. Each student must take both Software Engineering studio and research projects (12 points each) along with another core unit (6 points) and three Software Engineering electives (6 points each).

Career outcomes

Software Engineers help develop software for a variety of industries, such as telecommunications, banking and financial systems, aeronautics, medical devices, mobile devices, and transportation systems. They tend to hold technical, decision-making positions, such as Software Engineer, Systems Analyst, Software Architect, Quality Analyst, and Project Manager.

Software engineers work in teams with other software engineers, scientists, managers, and business people. These teams might consist of people in the next office or of people in locations all over the world.

Duration

Four years (full-time)

Intakes

February, July, and October

Course fee

Malaysian students RM44,000

International students RM48,400

How to apply

Applications must be submitted to the Admissions Office using a completed application form, accompanied by relevant certified copies of academic transcripts and a non-refundable application fee of RM100.

More information on application procedures is available on monash.edu.my/study/apply
Contact us

Business hours: Mondays to Fridays 8.30am – 6pm
Counselling hours for course enquiries: 8.30am – 6pm Mondays to Fridays, and 9am – 12.30pm on Saturdays.
Closed on Sundays and Public Holidays.

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