

BACHELOR OF SCIENCE WITH HONOURS IN SOFTWARE ENGINEERING 3+0

in collaboration with Coventry University, UK



The Bachelor of Science (Hons) in Software Engineering programme, offered in collaboration with Coventry University, UK, is designed to equip students with both the practical skills and theoretical knowledge essential for success in the dynamic field of software engineering. The curriculum emphasises full-stack development, enabling students to design, develop, and deploy software solutions that meet complex user and business requirements.

Through project-based modules, students work on real-world projects and collaborative team exercises, fostering hands-on experience and professional growth. The programme also offers opportunities for industrial placements, providing valuable industry exposure and enhancing employability. Graduates are well-prepared for careers as software developers, web and app developers, IoT specialists, and other roles in the tech industry.

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Highlights

- Explore fascinating fields such as mobile application development, embedded software engineering, and data science, and discover how these areas continue to drive major innovations in software engineering.
- Gain industry-relevant experience by applying real-world commercial software development practices in collaborative team settings.
- Access to industrial-strength collaborative learning platforms.
- Extracurricular activities in the IT Club enable students, with the support of academic staff, to acquire knowledge and skills in up-to-date technologies.
- Guest speakers from industry share their experiences and offer valuable advice on employability.
- Well-equipped specialised computing labs featuring high performance hardware and industry-standard software.

Career opportunities

Software Developer, Software Engineer, Mobile App Developer, Web Developer, Data Engineer, Cybersecurity Engineer, Embedded Systems Engineer, Systems Analyst, ERP Developer, QA Engineer, Test Engineer, Product Manager, IT Consultant



Committed to quality with Coventry University

Offered at

INTI International College Penang
(R2/0612/6/0027)(08/30)(MQA/FA6483)

Intake (s)

JAN, APR, & AUG

Duration

Full-time: 3 Years

Programme structure

Year 1

- Programming: Concepts and Algorithms
- Computer Systems
- Working with Data
- Mathematical Skills for Computing Professionals
- Programming: Professional Practice
- Integrative Project Module

Year 2

- Advanced Algorithms
- Data Science
- Software Engineering
- Systems Analysis and Design
- Web Development
- People and Computing
- Hi-Tech Entrepreneurship / Event Project Management (choose 1)

Year 3

- Security
- Web API Development
- User Experience Design
- Project Discovery
- Dissertation and Project Artefact

Electives (Choose 1)

- Mobile Application Development
- Embedded Software Engineering

Internship (Compulsory)

MPU Subjects

- Appreciation of Ethics and Civilisation (Local Students) / Malay Communication 2 (International Students)
- Philosophy and Current Issues
- Bahasa Kebangsaan A*/ Design Thinking
- Corporate Social Responsibility and Community Engagement
- Integrity and Anti-Corruption

**for Malaysian students who do not have a credit in SPM BM*

ENTRY REQUIREMENTS

Year 1 Entry

Foundation / Matriculation / A-Level / HSC / Monash University Foundation Year (MUFY) / NSW HSC / SACE / Canadian Pre-U or Ontario Secondary Diploma:

(i) Pass Foundation or Matriculation or equivalent with a minimum CGPA of 2.00 AND a credit in the below subject in SPM:

- a. Additional Mathematics or its equivalent OR
- b. Mathematics and any one of the Science, Technology or Engineering subjects at SPM level or its equivalent. Candidates need to take and pass the reinforcement Mathematics upon enrolment.

STPM:

(ii) Pass in STPM (Arts Stream) with a minimum Grade of C (CGPA 2.00) in any TWO (2) subjects AND a credit in the below subject in SPM:

- a. Additional Mathematics or its equivalent OR
- b. Mathematics and any one of the Science, Technology or Engineering subjects at SPM level or its equivalent. Candidates need to take and pass the reinforcement Mathematics upon enrolment.

(iii) Pass in STPM (Science Stream) or its equivalent with a minimum Grade C (CGPA 2.00) in Mathematics subject and ONE (1) Science or ICT related subject

Year 2 Entry

(iv) Diploma in Computing Fields (Computer Science, Information Technology, Software Engineering, Data Science):

Successfully completed Diploma in Computing Fields with a minimum CGPA of 2.50. Candidate with CGPA below 2.50 but above 2.0 can be accepted, subject to internal assessment evaluation process.

(v) Any Diploma in Science and Technology with a minimum CGPA of 2.75 AND a credit in the below subject in SPM:

- a. Additional Mathematics or its equivalent OR
- b. Mathematics and any one of the Science, Technology or Engineering subjects at SPM level or its equivalent. Candidates need to take and pass the reinforcement Mathematics upon enrolment.

Note: Candidate that falls under category (v) but obtain a CGPA below 2.75 but more than 2.50 can be accepted, subject to internal assessment evaluation process.

English Language Requirements:

SPM English Syllabus 1322: Grade 1-6; English 1119: Grade 1-6; GCE O-Level: Pass; IELTS: Band 6.0 and above; TOEFL: 550 and above; TOEFL (computer-marked): 220 or above; UEC: B

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