

Bachelor of Software Engineering (Hons)



Programme Structure

Year 1	Year 2	Year 3
<ul style="list-style-type: none"> • Computer Essentials • Discrete Mathematics • Programming Concept • Visual Programming • Information System • Computer Organisation • Software Engineering Principles • Web Development • Database Concepts and Management System • Operating Systems • Economic Analysis for Decision Making • Data Communication 	<ul style="list-style-type: none"> • Software Quality • Web Application Programming • Information Technology Entrepreneurship • Object Oriented Analysis and Design • Human Computer Interface • System Analysis and Design • Software Project Management • Software Verification and Validation • Data Structure and Algorithms • Computer Security • Project 1 	<ul style="list-style-type: none"> • Secure Software design and Programming • Software Evolution • Formal Methods • Project 2 • Industrial Training • Artificial Intelligence • Professional Ethics <p>* Elective modules are:</p> <ul style="list-style-type: none"> • Knowledge Based Systems • Digital Image Processing • Management Information Systems • Computer Systems Architecture • Multimedia Technology • Distributed Systems • Agile Development • Real-Time Systems Design <p>(Students are to choose any TWO (2) of the above EIGHT (8) modules based on the area of interest.)</p>

DURATION



DURATION



ENTRY REQUIREMENTS

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R/481/6/0760 (FA0420)
04/21 - Linton

3 Years

Main Intakes
April
August
December

CAREER PROSPECTS

Careers that involve programming, hardware architecture and construction, network design and engineering, software engineering, software tools and packages and others require the expertise in this field.



1. **Matriculation / Foundation** qualification or its equivalent: Pass with a minimum CGPA of 2.00 and credit in Additional Mathematics at SPM or its equivalent level; OR
2. **STPM / A-Level** or its equivalent: Pass with a minimum Grade C (GP 2.00) in any 2 subjects and credit in Additional Mathematics at SPM or its equivalent level; OR
3. **Diploma in Computer Science OR Software Engineering OR Information Technology OR Information Systems**, or equivalent: Pass with a minimum CGPA of 2.5 and credit in Additional Mathematics at SPM or its equivalent level. Candidates with CGPA below 2.5 but above 2.0 and a credit in Additional Mathematics at SPM or its equivalent level may be admitted subject to a rigorous internal assessment process; OR
4. **Diploma in Science and Technology**: Pass with a minimum CGPA of 2.50 may be admitted, subject to a rigorous internal assessment process and a credit in Additional Mathematics at SPM or Grade C in Additional Mathematics at O-Level or its equivalent level; OR
5. **UEC**: Pass with minimum Grade B in 5 subjects including Additional Mathematics at SPM level or its equivalent level; OR
6. Other equivalent qualifications recognised by the Malaysian Government.

Note: The condition of credit for Additional Mathematics in SPM can be exempted for candidates in category 1, 2, 3, 4 or 5 if the said qualification contains Mathematics subject and the result is equivalent to / higher than the credit requirement of Additional Mathematics subject in SPM.

Candidate with a credit in computing related subject in SPM or STPM or its equivalent may be given preferential consideration.

AND

International Students must pass:

- a) IELTS Band 5; OR
- b) TOEFL with a minimum score of 500; OR
- c) Pass English in Cambridge/Edexcel GCE A Level; OR
- d) MUET minimum Band 3.