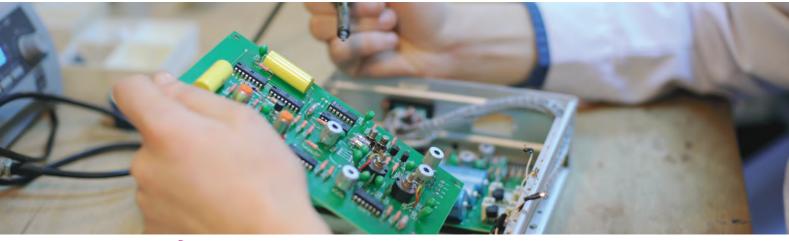
# **Bachelor of Software Engineering (Hons)**





## **Programme Structure**

## Year 1 Year 2 Year 3

- · 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

- 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

- Secure Software design and Programming
- Software Evolution
- Formal Methods
- Project 2
- Industrial Training
- Artificial Intelligence
- Professional Ethics
- \* Elective modules are:
- Knowledge Based Systems
- Digital Image Processing
- Management Information Systems
- Computer Systems
   Architecture
- Multimedia Technology
- · Distributed Systems
- Agile Development
- Real-Time Systems Design

(Students are to choose any TWO (2) of the above EIGHT (8) modules based on the area of interest.)

# **DURATION**

# **C** DURATION

# → **ENTRY REQUIREMENTS**

### Bachelor of Software Engineering (Hons)

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

### 3 Years

Main Intakes April August December

- 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
- 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.

### **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.



\*As stated in the Circular from Ministry of Education No. 2/2013 with reference number JPT/GS1000-606Jld.1(25), all new students who enroll into any programme in any private institution after 01 September 2013 are required to complete and pass all the required General Studies Modules / Mata Pelajaran Umum (MPU).