Bachelor of Technology (Information Technology) (Hons)

Bachelor of Technology (Information Technology) or BTech (IT) programme is offered as a work-based learning mode by Asia e University, a university established under the Asia Corporation Dialogue (ACD) which comprises of 33 countries. This programme is a well-recognised degree that has been offered in similar fashion in universities in UK and Europe. The uniqueness of this programme is that studying and working happens at the same time, making sense between academic theories and practical at workplace.

Learning Objectives

- Proficient with technical skills and knowledge related to computing technology as used by the industry
- Competent in the chosen specialisation to demonstrate the mastery of skills in solving the technological problem
- Ability to identify and communicate the technological requirements and problem-solving methods to the stakeholders
- Effective managerial skills with respect to meeting organisational expectation, managing project schedules, building team work spirit and professionalism.
- Ability to sustain lifelong learning for self advancement and the continuous involvement to the development of computer technology for humankind.

Entry Requirements

- Sijil Tinggi Persekolahan Malaysia (STPM)/A-Level with at least Grade C in 2 courses with minimum CGPA 2.00, and credit in Mathematics at SPM level; OR
- Matriculation/Foundation with CGPA 2.00 and a credit in Mathematics at SPM level; OR
- Diploma in IT or equivalent with CGPA 2.5 (candidate with CGPA more than 2.00 can also apply and subject to AeU discretion); OR
- Any non-IT Diploma with CGPA 2.50 and a credit in Mathematics at SPM level; OR
- International Baccalaureate (IB) with 24 points; OR
- Open Entry Requirement recognised by the Ministry of Higher Education Malaysia (for part time student only)
  - At least 21 years old and above with pass in PMR or equivalent; OR
  - Other equivalent qualifications approved by AeU Senate

Mode of delivery: Online.
SUBJECTS

Core
1. Application Programming
2. Design Language: Unified Modelling Language (UML)
3. User Interface Design
4. Software Integration & Architecture
5. Networking Interface and Programming
6. Software Project Management
7. Platform-based Enterprise Programming
8. Computer Systems and Business Process
9. Database Design and Programming
10. Service-Oriented Architecture and Web Services
11. Web Development and Technology
12. Business Operations and Services
13. Professional Industrial Project I
14. Professional Industrial Project II
15. Professional Industrial Project III

Compulsory Electives
1. Application of IT in Academics OR E-Learning
2. Critical Thinking and Problem-Solving Skills
3. Communication Skills

Specialisation (Choose Only One)
A) Computer Network Security
1. Ethical Hacking Methods and Techniques
2. Internet Intranet Management and Security
3. Intrusion Detection System
4. Network Security
5. Secured Programming
6. Secured Software Development

B) Web And Mobile Computing
1. Mobile Commerce
2. Mobile Device Programming
3. Multimedia Design and Scripting
4. Operating System for Mobile Device
5. Web and Multimedia Application Development
6. Web Design and Programming

C) Service-Oriented Architecture (SOA)
1. Business Process Integration Techniques and Methodologies
2. Business Process Modelling Language
3. Service Computing Technology
4. Service Legal Agreement and Contract
5. Service Science Architecture for Enterprise
6. SOA Component Integration

D) Software Development
1. Requirement Analysis Methodologies
2. Software Project Management and Practices
3. Software Quality Assurance
4. Software Specifications and Architectural Design
5. Software Testing and Maintenance
6. Technical Software and Development

General
Applicable to Malaysian Students only
1. Tamadun Islam dan Tamadun Asia
2. Hubungan Etnik
3. Academic Writing
4. Comparative Ethics
5. Social Responsibility Project

Applicable to International Students only
1. Malay Language (Bahasa Melayu) and Communication
2. Malaysian Studies
3. Academic Writing
4. Comparative Ethics
5. Social Responsibility Project

University Compulsory
1. Information Literacy and Research Skills
2. Entrepreneurship and Ethics in Malaysia
3. Asian Studies

PROGRAMME FACTS

<table>
<thead>
<tr>
<th>Mode of delivery</th>
<th>Open Distance Learning</th>
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<tbody>
<tr>
<td>Study Mode</td>
<td>Work-Based Learning (Part-Time): Online Tutorial, Face to Face, Laboratory Work and Practical Demo</td>
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<tr>
<td>Duration</td>
<td>3 - 4 years</td>
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<tr>
<td>Frequency of Tutorials</td>
<td>Fully online (tutorial will be arranged when necessary)</td>
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<tr>
<td>No. of Subjects</td>
<td>29 subjects + 3 projects</td>
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<tr>
<td>Assessment</td>
<td>Work observations, in-company project, log book / work diary, interview at work, reflective writing, work portfolio</td>
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<td>MQA Accreditation</td>
<td>JPT/BPP (N/481/B/0207) 08/17, PA1847</td>
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Note: All information is correct at the time of printing and is subject to change without prior notice.