











DIPLOMA IN INFORMATION TECHNOLOGY

Full time: 2.5 years

January / June / September

SCHOLARSHIP/AID Available

DIPLOMA IN COMPUTER SCIENCE

DURATION Full time: 2.5 years

INTAKE January / June / September

SCHOLARSHIP/AID Available

SUMMARY OF ENTRY REQUIREMENTS

PROGRAMME MODULES

Year 1

Core Modules

- Principles of Entrepreneurship Introduction to Public Speaking
- Statistics Understanding Computing
- Computer Organisation
- Structured Programming
- Web Development
- Calculus and Algebra
- Introduction to Computer Network
- Cybersecurity Fundamentals

*Internship begins at the completion of year 2

Year 2

Core Modules

- · Discrete Mathematics
- Object Oriented Programming
- Internet Programming
- Systems Analysis and Design Database Development
- Operating Systems
- Information Systems
- Human-Computer Interaction
- Summative (Computing Project)
- · Introduction to Artificial Intelligence
- · Introduction to Cloud Computing
- Data Communications and Networking
- Introduction to IoT
- Programming with Python · IT Project Management

PROGRAMME MODULES

Year 1

Core Modules

- Principles of Entrepreneurship Introduction to Public Speaking
- Statistics
- Understanding Computing Computer Organisation
- Structured Programming
- Web Development
 - Calculus and Algebra
- Introduction to Computer Network
- Cybersecurity Fundamentals

*Internship begins at the completion of year 2

Year 2

Core Modules

- · Software Engineering
- Discrete Mathematics
- · Object Oriented Programming
- Internet Programming
- Systems Analysis and Design
- Database Development
- Operating Systems
- Human Computer Interaction
- Platform Based Development
- · Introduction to Artificial Intelligence
- · Algorithms and Complexity
- · Programming with Python
- Systems Fundamentals Parallel and Distributed
 - Computing
- Summative (Computing Project)

SPM	 Pass with credit in at least three (3) subjects (inclusive of Mathematics or equivalent): or
O-Level	 Pass with at least Grade C in any three (3) subjects, including Mathematics; or
Unified Examination Certificate (UEC)	 Pass with at least Grade C in any three (3) subjects, including Mathemathics: or
STPM	 Pass with a minimum Grade C (GP 2.00) in a subject and credit in Mathematics at SPM Level or its equivalent; or
A-Levels	 Pass with a minimum grade D in any subjects and grade C in SPM/O-Level Mathematics; or
STAM	 Pass with a minimum grade of Maqbul and credit in Mathematics at SPM Level, or its equivalent; or
SKM (Level 3) in related field	Pass. Internal assessment on Mathematics competency may be carried out: or
Certificate (MQF Level 3) in related field	Pass with at least CGPA 2.00.

Note: Candidates with a pass in Mathematics at SPM level may be admitted if their admission qualification contains Mathematic subjects equivalent to SPM level. Otherwise, they need to take a reinforcement Mathematic subject in the

BACHELOR OF INFORMATION TECHNOLOGY (HONS)

JPT/BPP(R3/0611/6/0206) 08/28, (MQA/A9104)

DURATION Full time: 3 years

INTAKE January / June / September

SCHOLARSHIP/AID Available

PROGRAMME MODULES

Year 1:

Core Modules

C Programming

- Introduction to Information Systems
- Software Modeling and Analysis
- Database Systems
- Computer Architecture and Organisation
 Introduction to Object Oriented
- Programming
 Web Development
- Operating Systems Principles
- Information Technology Fundamentals
- Introduction to Data Communications and Networking

Year 3:

Core Modules

- Network Construction and Administration
- Software Project Management
- Information Assurance Security
- Final Year Project I
- Final Year Project II
- Enterprise Resource Planning
 Dynamic Web Programming
- Oynamic web Programming
 IoT Smart Application Development
- Big Data Analytics
- Blockchain Technology
- Internship
- Internsnip

BACHELOR OF INFORMATION TECHNOLOGY (HONS) (INTERNET ENGINEERING AND CLOUD COMPUTING)

DURATION Full time: 3 years

INTAKE January / June / September

SCHOLARSHIP/AID Available

PROGRAMME MODULES

Year 1:

Core Modules

- C Programming
- Introduction to Information Systems
- Software Modeling and Analys
- Database Systems
- Computer Architecture and Organisation
- Introduction to Object Oriented
- Programming
- Web Development
- Operating Systems Principles
- Information Technology Funda
- Introduction to Data Communications and Networking

Year 3:

Core Modules

- Network Construction and Administration
- Software Project Manageme
- Internet and Cloud Security
- Service Oriented Architecture
- IECC Project I
- IECC Project I
- Advanced Web Technologies
- Cloud Storage Infrastructure
- Dynamic Web Programming
- Blockchain Technology
- Internship

Year 2: Core Modules

- · Object Oriented Software Development
- Cloud Architecture
- · Software Design and Architecture
- · Data Communications and Networking
- Human Computer Interaction
- Artificial Intelligence
- · Routing and Switching
- Internet of Things
- Cybersecurity
- Discrete Structure

Year 2:

Core Modules

- Object Oriented Software Development
- Cloud Architecture
- Internet and Cloud Principles
- Software Design and Architecture
- · Data Communications and Networking
- Human Computer Interaction
- Artificial Intelligence
- Routing and Switching
- Cybersecurity
- Discrete Structure

BACHELOR IN INFORMATION **TECHNOLOGY** (CYBERSECURITY) (HONOURS)

DURATION Full time: 3 years

INTAKE January / June / September

SCHOLARSHIP/AID Available

PROGRAMME MODULES

Year 1:

Core Modules

- C Programming
- Introduction to Information Systems
- Software Modeling and Analysis
- · Database Systems
- Computer Architecture and Organisation
- Introduction to Object Oriented Programming
- Web Development
- Operating Systems Principles
- Information Technology Fundamentals
- Introduction to Data Communications and Networking

Year 3:

Core Modules

- Network Construction and Administration
- · Software Project Management
- Information Assurance Security
- Network Security
- · Dynamic Web Programming
- Ethical Hacking
- Cyberlaw
- · Vulnerability Assessment and Penetration Testing
- Cybersecurity Project I
- · Cybersecurity Project II
- Internshin

BACHELOR IN SOFTWARE ENGINEERING (HONOURS)

DURATION Full time: 3 years

INTAKE January / June / September

SCHOLARSHIP/AID Available

PROGRAMME MODULES

Year 1:

Core Modules

- Programming
- Understanding Computing

Year 3:

Core Modules

Year 2: Core Modules

- Object Oriented Software Development
- Cloud Architecture
- Software Design and Architecture
- · Data Communications and Networking
- · Human Computer Interaction
- Artificial Intelligence
- · Routing and Switching
- Data Security
- Cybersecurity
- Discrete Structure

Year 2:

- · Human Computer Interaction
- Artificial Intelligence

- Software Requirements Engineering

- Core Modules

- Software Design Pattern and Technology

BACHELOR OF COMPUTER SCIENCE (HONOURS) (DATA SCIENCE)

DURATION Full time: 3 years

January / June / September

SCHOLARSHIP/AID Available

PROGRAMME MODULES

Year 1:

Core Modules

- C Programming
- Software Modeling and Analysis
- Database Systems
- Computer Architecture and Organisation
- Introduction to Object Oriented Programming
- Web Development
- Operating Systems Principles
- Understanding Computing
- · Introduction to Data
- Communications and Networking · Python Programming

Year 3:

Core Modules

- · Theory of Computation
- Software Project Management
- Big Data Analytics
- Machine Learning
- · Data Mining and Predictive Analytics
- Platform Based Development
- Parallel and Distributed Computing
- Data Science Project I · Data Science Project II
- Data Visualisation
- Internship

Year 2: Core Modules

- · Data Structure and Algorithms
- · Computer Graphics
- Object Oriented Software Development
- · Software Design and Architecture
- · Human Computer Interaction
- · Artificial Intelligence
- Statistical Methods for Data Science
- · Data Science
- Discrete Structures
- · Information Assurance Security

BACHELOR IN COMPUTER SCIENCE (HONOURS) ARTIFICIAL INTELLIGENCE)

DURATION Full time: 3 years

INTAKE

January / June / September

SCHOLARSHIP/AID Available

PROGRAMME MODULES

Year 1:

Core Modules

- Operating Systems Principles
- Understanding Computing

Year 3:

Core Modules

- · Al Project II

Year 2: Core Modules

- Human Computer Interaction
- Artificial Intelligence
- Fuzzy Logic-Based Expert System

Bachelor of Information Technology (Hons)

Bachelor of Information Technology (Hons) (Internet Engineering and Cloud Computing)

Bachelor in Information Technology (Cybersecurity) (Honours)

SUMMARY OF ENTRY REQUIREMENTS

STPM	 Pass with a minimum Grade C (GP 2.00) in any two (2) subjects and a credit in Mathematics at SPM Level or its equivalent; or
A-Levels	 Pass with a minimum Grade D in any two (2) subjects and a credit in Mathematics at SPM Level or its equivalent; or
Unified Examination Certificate (UEC)	Pass with at least Grade B in any five (5) subjects and a credit in Mathematics at SPM Level or its equivalent; or
Foundation/ Matriculation	Pass with a minimum CGPA 2.00 and a credit in Mathematics at SPM Level or its equivalent; or
Diploma in Computer Fields (Level 4, MQF) or equivalent	 Pass with a minimum CGPA 2.50; Candidates with CGPA below 2.50 may need to undergo an internal evaluation; or
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Diploma in Non-Computing Fields field (Level 4, MQF)	 Pass with a minimum CGPA 2.75 and a credit in Mathematics at SPM Level or its equivalent; Candidates with CGPA below 2.75 but more than 2.50 may need to undergo an internal evaluation; or
DKM/DVM/DLKM/ ADVANCED DIPLOMA (LEVEL 5, MQF)**	Pass with a minimum CGPA of 2.50; or
STAM	Pass with minimum grade of Jayyid in any two (2) subjects and credit in Mathematics at SPM level.

*DKM - Diploma Kemahiran Malaysia/DVM - Diploma Vokasional Malaysia/DLKM - Diploma Lanjutan Kemahiran Malaysia

Note Candidates without credit in Additional Mathematics can be admitted with credit in Mathematics and any one of the Science, Technology or Engineering subjects at SPM level or its equivalent. Candidates may need to take and pass the reinforcement Mathematics subject in the first semester. For candidates with Matriculation/Foundation, the reinforcement mathematics is waived if the Mathematics at that level is equivalent/more than the Additional Mathematics offered at SPM.

Bachelor in Software Engineering (Honours) Bachelor of Computer Science (Honours) (Data Science) Bachelor in Computer Science (Honours) (Artificial Intelligence)

SUMMARY OF ENTRY REQUIREMENTS

STPM (Arts Stream)	 Pass with a minimum Grade of C (GP 2.00) in any two (2) subjects and credit in Additional Mathematics at SPM level or its equivalent; or
STPM (Science Stream) or its equivalent	Pass in STPM (Science Stream) with minimum Grade of C (GP 2.00) in Mathematics and one (1) Science/ICT subject; or
A-Levels	 Pass with at least Grade B in any five (5) subjects and a credit in Mathematics at SPM Level or its equivalent; or
Unified Examination Certificate (UEC)	 Pass with a minimum of Grade D in any two (2) subjects and credit in Additional Mathematics at O-level or its equivalent; or
STAM	 Pass with a minimum Grade of Jayyid in any two (2) subjects and credit in Additional Mathematics at SPM level or its equivalent; or
Foundation / Matriculation	Pass with a minimum CGPA of 2.00 and credit in Additional Mathematics at SPM level or its equivalent; or
Diploma in Science and Technology (Level 4, MQF)	 Pass with a minimum CGPA of 2.75 and credit in Additional Mathematics at SPM level or its equivalent. Candidates with a CGPA below 2.75 but more than 2.50 may need to undergo an internal evaluation; or
Diploma in Computing Fields	 Pass with a minimum CGPA of 2.50 Candidates with a CGPA below 2.50 but more than 2.00 may need an internal evaluation; or
DKM/DVM/DLKM/ ADVANCED DIPLOMA (LEVEL 5, MQF)**	Pass with a minimum CGPA of 2.50.

** DKM - Diploma Kemahiran Malaysia/DVM - Diploma Vokasional Malaysia/DLKM - Diploma Lanjutan Kemahiran Malaysia

Note: Candidates without credit in Additional Mathematics can be admitted with credit in Mathematics and not one of the Science, Technology or Engineering subjects at SPM level or its equivalent Candidates may need to take and pass the reinforcement Mathematics subject in the first semester. For candidates with Matriculation/Foundation, the reinforcement mathematics is waived if the Mathematics at that level is equivalent/more than the Additional Mathematics offered at SPM.

CAREER PROSPECTS

- Software and Application Developer
- Software Analyst
- Software Developers
- Application Programmers
- Web Developer
- Information Systems Manager
- Information Technology Consultant
- Multimedia Programmer
- Software Engineer
- Application Analyst
- Database Administrator
- IT Technical Support Officer
- Computer and Information Systems Manager
- Computer Network Architects
- Network Administrator
- System Administrator
- Data Analyst
- Data Centre Technician
- Data Scientist
- Data Engineer
- Data Architect
- · Database Analyst
- Hardware Engineer
- Data Analytics Manager

- Hardware Engineer
- Network Engineer Business Analyst
- · Data Analytics Manager
- · Machine earning Engineer
- Cloud Architect
- Cloud Data Scientist
 Cloud Consultant
- Cloud Engineer
- Cloud Automation Engineer
- Cloud Software Engineer
- Cloud Security Analyst
- Cloud Support Engineer
- Cloud Administrator
- Cybersecurity Specialist
- Cybersecurity Manager
- Security Consultants
- Ethical Hackers
- Penetration Tester
- Cybersecurity Analyst Digital Forensic Examiner
- · IT security Administrator
- Security Engineer
- · Security Architect

COMPUTING

For more information, please contact our Education Counsellors. **Student Recruitment Department Nilai University**

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