

# Bachelor of Information and Communication Technology – Software Technology

## BA-ICT

Semester 2 | 2024

### Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However, this can be amended depending on unit availability, unit progression, timetabling and the semester in which you commenced your course.

### How to use your Course Planner

Refer to the below table to help explain what units are required each semester throughout your course. The units in your planner are colour-coded to assist you with mapping out your studies.

## Year One

Semester 1   Aug/Sept 2024		
Unit Code	Unit Name	Pre-requisites
COS10009	Introduction to Programming	Nil
COS10025	Technology in an Indigenous Context Project	Nil
COS10005	Web Development	Nil
COS10003	Computer and Logic Essentials*	Nil
MPU3273	Integrity and Anti-Corruption (Malaysian and International Students)	Nil
Summer Term   Jan 2025		
MPU3212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil
Semester 2   Feb/Mar 2025		
COS20007	Object-oriented Programming	COS10009
ICT10022	ICT Inquiry Project	Nil
TNE10005	Network Administration	Nil
Elective 1		
MPU3193	Philosophy and Current Issues (Malaysian and International Students)	Nil

### Course Information

This course has 24 units (300 credit points) consisting of

**8 Core Units**  
100 credit points  
A set of compulsory units you MUST complete as part of your Course.

**8 Software Technology Major Units**  
100 credit points  
A set of compulsory units you MUST complete as part of your Course.

**8 Elective Units**  
100 credit points  
A combination of elective units / second-major / Minor

**General Studies/MPU**  
0 credit points  
\* Compulsory units to complete as a pre-requisite to graduate (see statement below)  
\* Advisable to enroll in Year One  
\* Email [itu@swinburne.edu.my](mailto:itu@swinburne.edu.my) for queries

### Work-Integrated Learning Placement (3 month) – Offer in Winter/Summer Term

25 credit points  
\* Completing Work-Integrated Learning Internship as an exemption to 2 electives  
\* Students need to complete at least 12 units to enroll in WIL placement  
\* WIL placement can be taken in Year 3  
\* Email [itu@swinburne.edu.my](mailto:itu@swinburne.edu.my) for queries

All commencing students of Master, Degree, Diploma and Foundation courses will be automatically registered for the **Academic Integrity Training Module** in the first semester (Note: Students articulating from Foundation Studies are expected to undertake this unit as a refresher). There are 4 topics in this online module that are recommended for completion during Week 1-4 of your commencing study period. At the end of this module, students are required to complete a quiz comprised of 10 questions and achieve a score of at least 90%.

Ministry of Education requires that all NEW Cohorts pursuing Degree program (International and Malaysian) students must take the MPU units as a prerequisite for the award of their degree.

- Malaysian students: Must take and pass the units as a prerequisite for the award of their degree.
- International students: Must attempt all coursework and final exam as a prerequisite for the award of their degree.

## Year Two

Semester 1   Aug/Sept 2025		
Unit Code	Unit Name	Pre-requisites
ICT30016	ICT Innovation Project	Nil
COS30020	Advanced Web Development	COS10009 & COS10005
COS30045	Data Visualisation	COS10009
COS30015	IT Security*	COS10009 & COS10005 & (TNE10005 / TNE10006)
MPU3183	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil
MPU3143	Malay Language Communication 2 (International Students Only)	Nil
Semester 2   Feb/Mar 2026		
COS20015	Fundamentals of Data Management	COS10009
COS20019	Cloud Computing Architecture	50cp
ICT20025	ICT Design Project	Nil
Elective 2		
Winter Term   Jun/July 2026		
ICT20016	Work Integrated Learning Placement Unit	Completed at least 12 units

## Year Three

Semester 1   Aug/Sept 2026		
Unit Code	Unit Name	Pre-requisites
ICT30017	ICT Project A	125cp
COS30017	Software Development for Mobile Devices	(COS20007 / COS20011 / COS30014)
Elective 3		
Semester 2   Feb/Mar 2027		
ICT30018	ICT Project B	ICT30017
COS30043	Interface Design and Development	(COS10011 / COS10005 / COS10026 / ENG20009) & (COS20007 / SWE20004)
Elective 4		

Recommended Elective Units			
Unit Code	Unit Name	Pre-requisites	Offered in
TNE10006	Networks and Switching	Nil	Feb/Mar & Aug/Sept
COS20030	Malware Analysis	TNE10005 / TNE10006	Aug/Sept only
COS30018	Intelligent Systems	COS20007	Feb/Mar only
Minor   Big Data Analytics			
COS10022	Introduction to Data Science	NIL	Feb/Mar & Aug/Sept
COS10082	Applied Analytics in Business	NIL	Aug/Sept only
COS20083	Advanced Data Analytics	COS10022 & COS10009	Feb/Mar only
COS20028	Big Data Architecture and Application	COS10022 & COS20007	Aug/Sept only

### Notes

\* Pre-scribed Elective