

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 23 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.

6 Elective Units

75 credit points

A combination of elective units / second-major / Minor

1 WIL Placement Units

25 credit points

An industry placement in a professional organization, corporation, or an institution.

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

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 for queries

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

25 credit points

* Students need to complete at least 12 units to enroll in WIL placement

* **WIL placement must be completed before the final semester**

* Email 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 course (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 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
TNE20002	Network Routing Principles	TNE10006	Feb/Mar & Aug/Sept
COS10004	Computer Systems	COS10009	Aug/Sept only
COS30082	Applied Machine Learning	COS30018/COS30019	Aug/Sept only
TNE30009	Network Security and Resilience	TNE10006	Aug/Sept only
SWE30009	Software Testing and Reliability	COS20007	Aug/Sept 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