

Diploma of Information Technology

DIT - Data Science

Semester 1 | 2026 (2 years)

Compulsory Sequence

Units are listed on your Course Planner in a compulsory sequence. Please note that some units must be offered only once a year and exclusively in either the Summer or Winter Term.

However, students with valid reasons, supported by proof, who are unable to follow the sequence must contact the Head of the Department of Information and Communication Technologies for advice on their study plan.

Year One

Semester 1 Feb/Mar 2026		
Unit Code	Unit Name	Pre-requisites
CSS101	Programming 1	Nil
CSS102	Discrete Mathematics and Calculus	Nil
DBI211	Web Technologies And Cloud Computing	Nil
DBC111	Preparatory English	Nil
MPU2272	Kursus Integriti dan Anti Rasuah (Malaysian & International students)	Nil
Winter Term Jun 2026		
DBI121	Information Technology	Nil
MPU2212	Bahasa Kebangsaan A (Malaysian students who do not have SPM Bahasa Melayu credit)	Nil
Semester 2 Aug/Sep 2026		
CSS204	Data Structure	CSS101
CSS104	Database Management System	CSS101 (CR)
CSS103	Fundamentals of Networking	Nil
CSS207	Linear Algebra and Statistics	Nil
MPU2182	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil
MPU2132	Malay Language Communication 1 (International Students Only)	Nil

Year Two

Summer Term Jan 2027		
Unit Code	Unit Name	Pre-requisites
CSS203	User Centred Design	Nil
Semester 3 Feb/Mar 2027		
CSS202	System Analysis and Design	CSS104 & CSS201 (CR)
CSS201	Programming 2	CSS101
CSS208	Introduction to Data Science	Nil
MPU2412	Service Learning	Nil
Winter Term Jun 2027		
CSS209 Industry Training	- Students need to complete 3 months internship as a prerequisite to graduate	
Semester 4 Aug/Sep 2027		
CSS305	Applied Data Science in Python	CSS101 & CSS208 & CSS207
CSS301	Software Project	137.5 cp
CSS205	Network and Switching	CSS103

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.

Course Information

Each unit is equivalent to 12.5 credit points. To qualify for the award of this course, students must complete 16 units + Industry Training (225 credit points) comprising of:

14 Core Units
175 credit points

A set of compulsory units you MUST complete as part of your Course.

2 Elective Units
25 credit points

A set of elective units you MUST complete as part of your specialization.

Industry Training
25 credit point

Students need to complete 3 months internship as a prerequisite to graduate

General Studies/ Mata Pelajaran Umum
0 credit point

A set of compulsory units to complete as a pre-requisite to graduate.

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.