

Diploma of Information Technology
DIT – Data Science

Semester 2 | 2025 (2 years)

Compulsory Sequence

Units are listed on your Course Planner in a compulsory sequence. Please note that some units are 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 Aug/Sep 2025 | | |
|---------------------------|--|----------------|
| Unit Code | Unit Name | Pre-requisites |
| CSS101 | Programming 1 | Nil |
| DBC111 | Preparatory English | Nil |
| CSS207 | Linear Algebra and Statistics | Nil |
| CSS103 | Fundamentals of Networking | Nil |
| MPU2272 | Integrity and Anti Corruption | Nil |
| Summer Term Jan 2026 | | |
| CSS203 | User Centred Design | Nil |
| Semester 2 Feb/Mar 2026 | | |
| CSS201 | Programming 2 | CSS101 |
| CSS102 | Discrete Mathematics and Calculus | Nil |
| DBI211 | Web Technologies and Cloud Computing | Nil |
| CSS208 | Introduction to Data Science | Nil |
| MPU2182 | Penghayatan Etika dan Peradaban (Malaysian Students Only) | Nil |
| MPU2142 | Malay Language Communication 1 (International Students Only) | Nil |

Year Two

| Winter Term June 2026 | | |
|---------------------------|---|--------------------------|
| Unit Code | Unit Name | Pre-requisites |
| DBI121 | Information Technology | Nil |
| MPU2212 | Bahasa Kebangsaan A | Nil |
| | (Malaysian students who do not have SPM Bahasa Melayu credit) | |
| Semester 3 Aug/Sep 2026 | | |
| CSS104 | Database Management System | CSS101 (CR) |
| CSS204 | Data Structure | CSS101 |
| CSS205 | Network and Switching | CSS103 |
| CSS305 | Applied Data Science in Python | CSS101 & CSS208 & CSS207 |
| MPU2412 | Service Learning | Nil |
| Summer Term Jan 2027 | | |
| CSS209 Industry Training | - Students need to complete 3 months internship as a prerequisite to graduate | |
| Semester 4 Feb/Mar 2027 | | |
| CSS301 | Software Project | CSS201 & CSS202 |
| CSS202 | System Analysis and Design | CSS104 & CSS201 (CR) |

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 points

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.