

DIPLOMA IN COMPUTER SCIENCE

JPT/BPP (N/0613/4/0001)(MQA/PA15311) 03/27

Diploma in Computer Science (DCS) is a 2-year course that gives you the foundational skills and knowledge in computer science. Through DCS, students will focus in programming, mathematics and statistics, databases, data modelling, data visualisation, data analytics, and software implementation which leading toward data sciences and cloud computing technology.

At the end of the programme, students are expected to be able to appreciate and utilise the latest computer technologies as well as demonstrate competent communication skills. Students should also be able to apply their educational experience learnt in class to the actual working environment.



PERDANA
UNIVERSITY

DU026(B)

▶ INTAKES

APRIL & OCTOBER

▶ DURATION

2 YEARS

▶ ENTRY REQUIREMENTS

SPM

Credits in at least 3 subjects including Mathematics; OR

IGCSE/O-LEVELS

Credits (Grade C & above) in at least 3 subjects including Mathematics; OR

UEC

Credits (Grade B & above) in at least 3 subjects including Mathematics; OR

CERTIFICATE

A relevant Certificate Programme or its equivalent.

**Candidates without a credit in mathematics at SPM level or its equivalent may be admitted if the certificate programme contains subjects in Mathematics that are equivalent to Mathematics at SPM level*

**Candidates with a credit in computing related subject at SPM level or its equivalent may be given preferential consideration.*

▶ CAREER OPPORTUNITIES

- ✓ Programmer
- ✓ Software Developer
- ✓ Web Developer
- ✓ Data Administrator
- ✓ Cybersecurity Administrator
- ✓ Cloud System Administrator



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COURSE STRUCTURE

YEAR 1

- ▶ Programming Fundamentals
- ▶ Mathematics
- ▶ Introduction to Database
- ▶ Big Data
- ▶ Data Structures and Algorithms
- ▶ Computer Network and Communication
- ▶ Discrete Mathematics
- ▶ Technopreneurship
- ▶ Introduction to Artificial Intelligent
- ▶ Computer Architecture
- ▶ Introduction to Operating Systems
- ▶ Web Programming
- ▶ PC Maintenance and Troubleshooting
- ▶ * General Studies Subjects

YEAR 2

- ▶ System Analysis and Design
- ▶ Introduction to Cloud Computing
- ▶ Digital Marketing
- ▶ Introduction to Computer Security
- ▶ Internet Commerce Technology
- ▶ Ethics and Professional Conducts
- ▶ Introduction to Data Science
- ▶ Machine Learning
- ▶ Data Visualization
- ▶ Current Issue in Data Science
- ▶ Cloud Computing Architecture
- ▶ Introduction to Cloud Native and Continuous Integration/Continuous Delivery
- ▶ Introduction to Parallel Processing and Distributed Systems
- ▶ Current Issue in Cloud Computing
- ▶ * General Studies Subjects

EDUCATION PATHWAY

