



BACHELOR OF COMPUTER SCIENCE (Honours) IN DATA SCIENCE

JPT/BPP (N/481/6/0812) (MQA/PA11408) 05/24

- Soaring industry demand
- Lifeline for Industrial Revolution 4.0
- Balanced curriculum
- Access to international data science network
- Diverse and enriching industry placement experience

CAREER PATH



SCHOLARSHIP AVAILABLE

DURATION OF STUDY

3 years (full-time) OR 6 years (part-time)

CREDIT HOURS

120

ADMISSION REQUIREMENTS

STPM	Minimum CGPA of 2.0 and pass SPM/O Levels or equivalent with credit in Mathematics
Foundation/ Matriculation	Minimum CGPA of 2.0 and credit in Mathematics at SPM Level
Diploma / equivalent	Minimum CGPA of 2.5 and credit in Mathematics at SPM Level (Candidates with CGPA below 2.5 but above 2.0 may be admitted subject to rigorous internal assessment process)
Unified Examination Certificate (UEC)	5Bs and pass Mathematics
Australian Matriculation (AUSMAT) / South Australian Matriculation (SAM)	Average 55% in 5 subjects including Mathematics
Canadian – Pre University (CPU)	Average 55% in 6 subjects including Mathematics
International Baccalaureate (IB)	Possesses 26 points in 6 subjects including Mathematics
Others	Other equivalent qualifications recognised by Perdana University's Senate

Any ONE of the above qualification requirements will be considered.

CURRICULUM STRUCTURE

YEAR ONE

Calculus
Discrete Mathematics
Introduction to Computer Programming
Computer Organisation & Operating System
Data Structures and Algorithm

MPU Subjects
Probability and Statistics
Fundamentals of Software Development
Linear Algebra
Introduction to Database

YEAR TWO

Computer Network
Applied Regression and Time-Series Analysis
Web Programming and Scraping
Multivariate Analysis
Introduction to Data Science and its Toolkits
MPU Subjects
Big Data

Introduction to Parallel Processing
Data Analytics Essentials
Research Methodology, Critical Thinking and Scientific Communication
Seminar and Industry talks
Elective*

YEAR THREE

Business Intelligence & Entrepreneurship
Dimensionality Reduction
Machine Learning
Visualisation on Data & Communicating Results
Professional Ethics and Information Law

Elective*
Final Year Project
Internship

Electives*
(choose any TWO)

Digital Marketing
Data Mining Application in Life Sciences
Health Analytics and Data Mining

Econometrics
Data Driven Organisation