



THE BRAND LAUREATE
CSR BRAND LEADERSHIP
AWARDS 2018



PERDANA UNIVERSITY

DU026(B)



BACHELOR OF COMPUTER SCIENCE (HONS) IN DATA SCIENCE

JPT/BPP (N/481/6/0812) (MQA/PA11408) 05/24
SCHOOL OF DATA SCIENCES

Recognised by the
Malaysia Board of Technologists



ABOUT PERDANA UNIVERSITY

Perdana University is envisioned to be an education–research hub for the region fulfilling the needs of the nation for competent health science graduates. It was established as a Public Private Partnership (PPP) initiative by Academic Medical Centre Sdn. Bhd., a subsidiary of Chase Perdana Sdn. Bhd. with the support of the Prime Minister’s Department. The University is well equipped with leading–edge teaching and learning facilities.

DEAN’S MESSAGE



Data Science is the current cutting-edge technology trend that may re-shape and improve the quality of our life and the future. To harvest the knowledge from data which may be obtained from a broad range of fields such as life sciences, physical sciences, engineering and technology and social sciences as well as our daily life, students will be equipped with knowledge, skills and experience that will prepare them for their career in data sciences. The School of Data Science aims to be the vanguard for data science. It was set up to concurrently address the three interconnected facets of an academic endeavour – research, education and services – in order to effectively contribute to the advancement of data science in Malaysia and beyond.

Assoc. Prof. Dr Choi Sy Bing
Acting Dean
BSc (Hons) (First Class) (UM),
MSc (USM), PhD (USM)

WHAT IS DATA SCIENCE?

Data Science is the science and art of managing, merging, storing, analyzing large amounts of data and creating visualizations to help others understand them. It draws on techniques and theories from a wide range of disciplines including mathematics, statistics, computing, information science, etc. to make sense of data and make advances in the fields that are generating it.



**DATA
SCIENCE**



BIG = BIG
DATA = OPPORTUNITIES





This last decade has brought about such a **HUGE** explosion of data that people do not know what to do with it!

2.5 QUINTILLION bytes of data is produced every day!



But correctly working with the data can bring about **DEEP** insights and developments for the benefit of humanity.

Weather, Politics, Biology, Retail, eCommerce, Finance, Healthcare, Sports, Science and Research, Machine and Device, Automobile, Real Estate, Aviation, Entertainment, Telecom, Government, Social Media, Military, etc.

AREAS WITH BIG DATA

THE UNIQUENESS



CAREER OPPORTUNITIES



PROGRAMME DETAILS

AWARD TITLE	BACHELOR OF COMPUTER SCIENCE (HONS) IN DATA SCIENCE
MODE OF STUDY	FULL-TIME / PART-TIME
CREDIT HOURS	120
TEACHING & LEARNING METHOD	BLENDED LEARNING (LECTURES COMBINED WITH ONLINE LEARNING AND INDEPENDENT STUDY), PRACTICAL, TUTORIAL, INTERNSHIP, ASSIGNMENT, PRESENTATION AND TEST

CURRICULUM STRUCTURE

YEAR 1

Fundamentals of Software Development
 Discrete Mathematics
 Introduction to Computer Programming
 Computer Organization & Operating System
 Data Structures and Algorithm
 Probability and Statistics

Calculus
 Linear Algebra
 Introduction to Database
 MPU Subjects

Seminar & Industry Talks
 Applied Regression & Time-series Analysis
 Web Programming & Scraping
 Computer Network
 Introduction to Data Science and its toolkits
 Research Methodology, Critical Thinking & Scientific Communication

Big Data
 Multivariate Analysis
 Introduction to Parallel Processing
 Data Analytics Essentials
 MPU Subjects
 Elective*

YEAR 2

YEAR 3

Business Intelligence & Entrepreneurship
 Dimensionality Reduction
 Machine Learning
 Professional Ethics & Information Law
 Visualization on Data & Communicating Results
 Final Year Project

Internship
 Elective*

Electives*
 (Choose any TWO only)

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

Econometrics
 Data Driven Organisation

ENTRY REQUIREMENTS

STPM OR EQUIVALENT (Science Stream)

Minimum Grade C (NGMP 2.00) in 1 Mathematics subject and 1 Science/ICT subject

STPM (Non-Science Stream)

Minimum Grade C (NGMP 2.00) in any 2 subjects and Credit in Additional Mathematics or Mathematics and any 1 Science, Technology or Engineering subject at SPM or equivalent.

FOUNDATION / MATRICULATION OR EQUIVALENT (Non-Science Stream)

Minimum CGPA of 2.00 and Credit in either Additional Mathematics or Mathematics and any 1 Science, Technology or Engineering subject at SPM or equivalent

DIPLOMA IN ICT / SCIENCE AND TECHNOLOGY RELATED FIELD

Minimum CGPA of 2.50 (Candidates with CGPA below 2.5 but above 2.0 may be admitted subject to rigorous internal assessment process).

OTHERS

Other equivalent qualifications recognised by Perdana University's Senate

*ANY ONE OF THE ABOVE QUALIFICATION REQUIREMENTS WILL BE CONSIDERED



FIND US HERE

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