



SICT

# DIPLOMA IN DATA ANALYTICS



**FULL-TIME**

3 Year Programme



## NEW POWER OF DATA

Diploma in Data Analytics is a new programme offered by Politeknik Brunei under the School of ICT, designed to not only equip students with technical skills to translate raw data to meaningful information, but also develop competency in decision-making skills by discovering intelligent insights and predict trends useful for multiple industries.

## GOALS & OBJECTIVES

01

### **DATA SCIENCE & INTELLIGENCE**

Acquire specialized skills in data mining, with fundamental emphasis on AI and Machine Learning

02

### **DATA VISUALIZATION**

Build expertise in visualizing intelligent insights and predict trends through analytics

03

### **BIG DATA ANALYTICS**

Discover and implement wide variety of tools and techniques of Big Data Analytics

## CAREER IN THE DIGITAL ECONOMY

Data is getting more valuable than ever in this digital era. But data without analytics means that its value is not yet potentialized. With keen interest in building the nation's digital economy and IT growth, the demands for data analytics is growing but remains versatile and needed in multiple sectors and industries.



# DIPLOMA IN DATA ANALYTICS

Discover intelligent insights, patterns and trends through the power of data analytics,  
with fundamental emphasis on AI and Machine Learning

## YEAR 1

Pendidikan Islam  
Statistical Mathematics for Computing  
Communication Skills for Computing  
Health, Safety, Security and Environment  
Computer System Architecture  
Information Systems Essentials  
Pengajian Melayu Islam Beraja  
Entrepreneurship  
Web Design  
Introduction to Programming  
Information Literacy and Governance  
Introduction to Data Analytics & Society

## YEAR 2

Database Design and Implementation  
Systems Analysis and Design  
Object Oriented Programming  
Data Mining & Warehousing  
Data Visualization  
Programming for Data Analytics  
Artificial Intelligence & Machine Learning  
Data Science and Big Data Analytics  
Project Management

## YEAR 3

Enrichment  
Catalyst: IT Academy  
Apprenticeship / Contextualized Industry Placement  
Applied AI & Machine Learning / IT Project  
+ Elective of Choice

## ELECTIVE

3D Animation I  
Conventions of Animation  
Digital Library and Management  
Digital Design and Media Studies II  
Video Production I  
Web Design  
User Experience Design  
Database Design and Implementation  
Object Oriented Programming  
Systems Analysis and Design  
Emerging Technologies  
Computer Network & Data  
Communication  
Internetworking  
Information Security  
Cloud Services  
Intermediate Web Programming  
Cloud Computing  
System Operations

Note

Similar modules already offered in the programme cannot be taken as elective.

## HOW ELECTIVES WORK

To be chosen and taken by student **specifically in Semester 5 only**. Any modular elective can be selected from the above list offered by the school, when the module is expected to run.

## WHY ELECTIVE OPTION

This is to ensure that accumulative credit values at the end of study can achieve a **minimum of 90 points for the award of Level 5 Diploma**. Also by offering an elective option, students will be able to develop additional competency deemed useful yet applicable in their current or future IT-related career.



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