



DIPLOMA OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

The Diploma in Data Science and Artificial Intelligence provides an introduction to the knowledge and skills required to work within the two strongly complementary areas Data Science and Artificial Intelligence, with both following under the broader category of Computer Science. Data science is a domain of study that deals with vast volumes of data using modern tools and techniques to find unseen patterns, derive meaningful information, and guide decision-making.

Data science uses complex machine learning algorithms to build predictive models. On the other hand, Artificial Intelligence as a branch of computer science that deals with building smart machines that are capable of performing complex tasks that normally require human interference and intelligence.

It combines data science with real-life data to leverage machines and computers to imitate the decision-making and problem-solving capabilities that the human mind has. The Diploma in Data Science and Artificial Intelligence is designed for students who wish to develop their knowledge and skills to start a career in these sectors, in order to meet the growing demand and skills gaps in this area of specialization.

Program	Diploma of Diploma in Data Science & Artificial Intelligence	
Credit Hours	72 Credits	
Duration	Academic Year (9 Months)	
SUBJECT	CREDIT HOURS	CODE
English Language 101	3	EN101
English Language 102	3	EN102
Introduction To Information Technology	3	CP241
Operating Systems	3	CP242
Database Management	3	CP243
System Analysis and Design	3	CP244
Networks	6	CP244
C# / C++	3	CP245
Algorithms	3	CP246
Python Programming	3	CP247
JAVA	3	CP248
Computer Architecture	3	DA001
Data Visualization and Analysis	3	DA002
Data Protection & Intellectual Property Rights	3	DA003
Robotics and Intelligent Systems	3	DA004
Data Warehousing	3	DA005
Big Data & Machine Learning	3	DA006
Graduation Project	18	DA007