



PROFESSIONAL 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	Professional Diploma of Data Science & Artificial Intelligence	
Training Hours	240 Training Hours	
Duration	Academic Year (9 Months)	
SUBJECT	TRAINING HOURS	CODE
English Language 101	20	EN101
English Language 102	20	EN102
Introduction To Information Technology	12	CP241
Operating Systems	12	CP242
Database Management	12	CP243
System Analysis and Design	12	CP244
Networks	12	CP244
C# / C++	12	CP245
Algorithms	12	CP246
Python Programming	12	CP247
JAVA	12	CP248
Computer Architecture	12	DA001
Data Visualization and Analysis	12	DA002
Data Protection & Intellectual Property Rights	12	DA003
Robotics and Intelligent Systems	12	DA004
Data Warehousing	12	DA005
Big Data & Machine Learning	12	DA006
Graduation Project	20	DA007