BSc (Hons) Data Science programme

The BSc (Hons) Data Science programme aims to provide students with a comprehensive grounding in the knowledge and expertise expected of data engineers and data scientists. The curriculum is designed such that students are provided with a thorough exposure to the fundamental mathematical, statistical and algorithmic principles underpinning data science. Throughout, theoretical work will be reinforced with practical application, with students recognising and appreciating how the fundamental principles are reflected in a broad range of data processing and analyses. The goal is to provide a comprehensive 'end-to-end' educational experience such that students become competent not only in the processing and analysis of data, but also manipulating and preparing data from a raw state as well as interpreting results and effectively communicating findings to others. This is vital to ensure graduates of this programme are well-prepared to tackle a broad range of challenges in their future careers.

Modules

Level	Module Title
Level 4	Statistics and Probability
	Mathematical Methods
	Principles of Data Science
	IT Literacy and Core Skills
	Linear Algebra
	Data Science Laboratory 1
	Computational Modelling
	Principles of Data Presentation
Level 5	Programming
	Information Theory
	Big Data and High-Performance Computing
	Blockchains and Cryptocurrencies
	Statistical Modelling
	Introduction to Machine Learning and Neural Networks
	Game Theory
	Data Science Laboratory 2
Level 6	Linear Modelling
	Advanced Machine Learning and Neural Networks
	Multivariate Statistics
	Next Generation Data Science
	Computer Vision and Natural Language Processing
	Data Science Project

The BSc. (Hons) Data Science programme at SLT-MOBITEL Institute of Technology provides students with a clearly defined workload structure. Students can expect approximately three contact hours per module per week, including lectures, tutorials, and practical sessions. The total notional learning time is 150 hours per module, which encompasses guided learning hours, self-study, assessments, and practical

work. Most teaching sessions are conducted through face-to-face delivery, ensuring active engagement and interactive learning.

The programme is delivered by a highly qualified and experienced academic panel comprising postdoctoral and doctoral-level lecturers, chartered engineers, and industry experts. This diverse and professionally accomplished teaching team ensures that students receive both strong theoretical foundations and industry-relevant insights, supporting their development as skilled data science professionals.