

MSC (DATA SCIENCE AND ANALYTICS)

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

Programme Requirements

Code	Title	Credits
Students take 90 credits as follows - modules to the value of 60 credits in Part 1 and a Dissertation (30 credits) in Part 2:		
Part 1		
Students take 60 credits as follows - all listed core modules (30 credits) and 30 credits of elective modules:		
<i>Core Modules</i> ¹		
CS6405	Datamining	5
CS6421	Deep Learning	5
ST6030	Foundations of Statistical Data Analytics	10
ST6033	Generalised Linear Modeling Techniques	5
CS6408	Database Technology ²	5
or CS6503	Introduction to Relational Databases	
<i>Elective Modules</i> ¹		
Students take modules to the value of 10 credits from the following CS modules:		30
CS6506	Programming in Python (5) ³	
CS6507	Programming in Python with Applications (5) ³	
CS6422	Complex Systems Development (5) ³	
CS6423	Scalable Computing for Data Analytics (5) ³	
Plus modules to the value of 20 credits, with at least 10 credits of ST (Statistics) modules, from the following:		
CS6322	Optimisation (5)	
CS6409	Information Storage and Retrieval (5)	
CS6420	Topics in Artificial Intelligence (5)	
CS6426	Data Visualization for Analytics Applications (5)	
ST6034	Multivariate Methods for Data Analysis (10)	
ST6035	Operations Research (5)	
ST6036	Stochastic Decision Science (5)	
ST6040	Machine Learning and Statistical Analytics I (5)	
ST6041	Machine Learning and Statistical Analytics II (5)	
Part 2		
Students take 30 credits as follows:		
<i>Core Modules</i>		
CS6500	Dissertation in Data Science and Artificial Intelligence	30
or ST6090	Dissertation in Data Analytics	
Total Credits		90

¹ All selections are subject to approval of the programme coordinator.

² Students who have adequate database experience take CS6408.

Students who do not have adequate database experience take CS6503

³ Students who have adequate programming experience can take CS6422 and CS6423. Students who do not have adequate programming experience can take CS6506 and CS6507