

MSc in Computer Science (Data Analytics)

Students must obtain approval of their module selection from the Programme Director. Selection of modules may depend upon:

- **Availability of the module in the academic year of study**
- **Timetabling constraints with respect to other modules chosen**
- **Completion of pre-requisite or co-requisite modules, or other required modules as identified by the Programme Director.**

Students cannot take a module where they have already completed coursework of a similar content and standard.

<i>Requisite:</i>	<i>Module Code</i>	<i>Module Name</i>	<i>ECTS</i>	<i>Taught in Semester(s)</i>	<i>Examined/Submitted in Semester(s)</i>
	CT5108	Data Analytics Project	30	3	3
Foundational Modules (Select 20 ECTS)					
	CT5102	Programming for Data Analytics	5	1	1
	ST1100	Engineering Statistics	5	1	1
	ST235	Probability	5	1	1
	CT475	Machine Learning & Data Mining	5	1	1
	CT5105	Tools & Techniques for Large Scale Data Analytics	5	1	1
	EE445	Digital Signal Processing	5	1	1
Advanced Modules (Select 40 ECTS)					
	ST313	Applied Regression Models	5	1	1
	MA204	Discrete Mathematics	5	1	1
	CT422	Modern Information Management	5	1	1
CT422, CT475	CT5107	Advanced Topics in Machine Learning and Information Retrieval	5	2	2
	CT5104	Web Mining	5	2	2
	CT561	Systems Modelling and Simulation	5	1	1
	CT5103	Case Studies in Data Analytics	5	2	2
EE445	EE445	Digital Signal Processing	5	2	2
	CT5101	Natural Language Processing	5	2	2
	CT5100	Data Visualisation	5	2	2
	DER5101	Linked Data	5	1	1
	MP305	Modelling I	5	1	1
ST235	MA461	Probabilistic models for molecular biology	5	2	2
ST235	MA215	Mathematical molecular biology	5	2	2
ST235	ST412	Stochastic Processes	5	2	2
	ST312	Applied Statistics 2	5	2	2
	ST236	Statistical Inference	5	2	2