Module Title:	Introduction to Data Analytics
Language of Instruction:	English

Credits:	5

NFQ Level:	6

Module Delivered In	3 programme(s)

Teaching & Learning Strategies:	As well as traditional lectures students will undertake in-class exercises on material presented in class. Small group tutorials will encourage further problem solving and discussion.

Module Aim:	To provide students with mathematical techniques appropriate for computer systems management.

Learning Outcomes
On successful completion of this module the learner should be able to:

LO1	Newton's Method, Least Square Line, Curve Fitting, Least Square Method and Data Linearisation.
LO2	Numerical Techniques

Pre-requisite learning
Module Recommendations   *This is prior learning (or a practical skill) that is recommended before enrolment in this module.*
No recommendations listed
Incompatible Modules   *These are modules which have learning outcomes that are too similar to the learning outcomes of this module.*
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements   *This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.*
No requirements listed

Module Content & Assessment

Indicative Content
Numerical Methods Newton's method, line and curve fitting, forecasting n/a
basic statistics n/a

Assessment Breakdown	%
Continuous Assessment	50.00%
End of Module Formal Examination	50.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	written exam	1	50.00	n/a

No Project

No Practical

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Final written exam	2	50.00	End-of-Semester

ITCarlow reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time

Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	2.00
Tutorial	12 Weeks per Stage	1.00
Estimated Learner Hours	12 Weeks per Stage	7.42
	Total Hours	125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KWCCD_B	[Bachelor of Science (Honours) in Creative Computing and Digital Innovation](#)	3	Mandatory
CW_KCCIT_B	[Bachelor of Science (Honours) in Information Technology Management](#)	3	Mandatory
CW_KCCSY_D	[Bachelor of Science in Information Technology Management](#)	3	Mandatory