

Requirements
This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No Co-requisite modules listed

No requirements listed

ZANA C1201: Introduction to Data Analytics

	-4X	University
Module Title	e:	Introduction to Data Analytics
Language of Instruction:		English
Credits:	5	
NFQ Level:	6	
Module Deli	ivered In	3 programme(s)
Teaching & Strategies:	Learning	A mixture of traditional lectures, problem solving tutorials and laboratory work
Module Aim	n:	To provide the student with a competence and understanding of the fundamental mathematics required to function in the field of Interactive Digital Media Design.
Learning Ou	utcomes	
On successf	ful completion of t	his module the learner should be able to:
LO1	identify common	n functions from their graphs;
LO2	organise, prese	nt and statistically analyse data;
LO3	perform approp	riate numerical techniques to model patterns identified in large data sets;
LO4	write computer	programmes to further explore the concepts of this syllabus.
Pre-requisit	e learning	
	commendations learning (or a prac	ctical skill) that is recommended before enrolment in this module.
No recomme	endations listed	
Incompatible These are m		re learning outcomes that are too similar to the learning outcomes of this module.
No incompat	tible modules liste	d
Co-requisite	e Modules	



ZANA C1201: Introduction to Data Analytics

Module Content & Assessment

Indicative Co	ontent
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Cartesian product of sets, relations, functions, graphs of common functions, transformations, composition and inverse of functions.

Data Presentation and StatisticsFrequency distributions, histograms, frequency curves, measures of central tendency and dispersion, normal distribution.

Numerical Techniques
Scattergraphs, root mean-square error, the normal equations, linear and non-linear fitting, forecasting.

Assessment Breakdown	%
Continuous Assessment	20.00%
Practical	30.00%
End of Module Formal Examination	50.00%

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	30 minute multiple choice class test	1	10.00	Week 6
Examination	30 minute multiple choice class test	2,3	10.00	Week 12

No Project

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	students given tasks which involve implementing in computer code the concepts and skills encountered	1,2,3,4	30.00	Every Week

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Closed book examination based on all learning outcomes	1,2,3	50.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Lecture	12 Weeks per Stage	2.00
Practicals	12 Weeks per Stage	2.00
Independent Learning Time	12 Weeks per Stage	5.42
Tutorial	12 Weeks per Stage	1.00
	Total Hours	125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KCCGD_B	Bachelor of Science (Honours) in Computer Games Development	2	Mandatory
CW_KCIAD_B	Bachelor of Science (Honours) in Computing in Interactive Digital Art and Design	2	Mandatory
CW_KCIAD_D	Bachelor of Science in Computing in Interactive Digital Art and Design	2	Mandatory

Discussion Note:	TEST
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