

ZRCH H1101: Research Methods 1

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Module Title:		Research Methods 1		
Language of Instruction:		English		
Credits: 5		· · · · · · · · · · · · · · · · · · ·		
NFQ Level	l: 6	5		
Module Do	elivered In	No Programmes		
Teaching & Learning Strategies:		This module will be taught in three theory classes of one hour duration and two computer lab practicals of one hour each for 15 weeks. Students will be expected to complete problem-sheets to re-enforce learning. Relevant examples, notes and self testing problems will be available on Blackboard. Delivery of the computing module will involve individual and group practical exercises.		
Module Aim:		The aim of this module is to provide students with a good knowledge of basic statistical methods and develop their practical skills in computing to support other subjects and for use in a professional environment.		
Learning	Outcomes			
On succes	ssful completion	of this module the learner should be able to:		
LO1	Perform and	d interpret scientific calculations as required in other subjects.		
LO2	Apply statis	tical tools to summarise data and explore the relationship between variables.		
LO3	Demonstrat	Demonstrate academic writing skills.		
LO4	Contribute as an effective team member to successful completion of a group project using ICT tools to represent, share and present information on a scientific topic.			
Pre-requis	site learning			
	ecommendatio or learning (or a	ns practical skill) that is recommended before enrolment in this module.		
No recomm	mendations liste	d		

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

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Module Content & Assessment

Indicative Content

Theory: Scientific Calculations

Scientific notation, significant figures, logarithms and pH values. Units of measurement and conversions.

Theory: Statistics

Types of data. Tabular and graphical presentation of data. Measures of central tendency and dispersion.

Theory: Sampling
Sampling techniques and sampling distributions.

Theory: Probability

Basic probability, diagnostic tests and the Normal Distribution.

Theory: Measures and Tests of Association

Pearson's correlation coefficient and Spearman's rank correlation coefficient. Linear Regression and Scatter plots.

Theory: Academic Writing

Academic Writing.

Practical: Information & Communications Technology ICT Theory. Referencing, Document Sharing, Word Processing and Presentations.

Practical: Data Analysis Excel and Introduction to SPSS.

Assessment Breakdown	%
Continuous Assessment	10.00%
Practical	50.00%
End of Module Formal Examination	40.00%

Special Regulation

Students must achieve a minimum grade (35%) in both the practical/CA and final examination.

Continuous Assessment					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Examination	In-class assessments.	1,2	10.00	n/a	

No Project

Practical					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation	Computing assignments and in-class exam.	4	35.00	Sem 2 End	
Practical/Skills Evaluation	Academic Writing assignments.	3	15.00	n/a	

End of Module Formal Examination					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Formal Exam	2 hour examination.	1,2	40.00	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	30 Weeks per Stage	1.50
Laboratory	30 Weeks per Stage	1.00
Estimated Learner Hours	30 Weeks per Stage	1.33
	Total Hours	115.00