H6QMET: Quantitative Methods

Module Code:	H6QMET
Long Title	Quantitative Methods APPROVED
Title	Quantitative Methods
Module Level:	LEVEL 6
EQF Level:	5
EHEA Level:	Short Cycle
Credits:	5
Module Coordinator:	CORINA SHEERIN
Module Author:	CORINA SHEERIN
Departments:	
Specifications of the qualifications and experience required of staff	

Learning Outcomes	
On successful completion of this module the learner will be able to:	
#	**Learning Outcome Description**
LO1	LO 1. Classify data according to the definitions of data types.
LO2	LO 2. List and define a range of types of sampling techniques.
LO3	LO 3. Represent data using appropriate graphical representations.
LO4	LO 4. Distinguish between the uses of population and sample statistics.
LO5	LO 5. Summarise sample data presented in different formats using descriptive statistics.
LO6	LO 6. Summarise population data presented in different formats using descriptive statistics.

Dependencies
Module Recommendations
No recommendations listed
Co-requisite Modules
No Co-requisite modules listed

Entry requirements	

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Module Content & Assessment

Indicative Content

Data Collection (10%)
• Uses of data • Nature of data – qualitative, quantitative • Categories of data • Sources of data – primary, secondary • Data collection – questionnaires

Sampling (20%)
• Random sampling • Systematic sampling • Multistage sampling • Stratified sampling • Cluster sampling

Data Analysis (20%)
• Organising numerical data • Data presentation in tables and charts • Graphs

Numerical Descriptive Measures I (30%)
• Numerical data • Measures of central tendency – grouped and ungrouped data • Measures of dispersion – grouped and ungrouped data • Coefficient of variation

Numerical Descriptive Measures II (20%)
• Calculation of correlation coefficient • Interpretation of correlation coefficient • Simple linear regression • Multiple regression • Interpretation of regression results

Teaching methodology:
This module will be taught using a combination of: lectures; tutorials throughout the semester. These may include: group activities and or case studies.

Assessment Breakdown	%
Coursework	40.00%
End of Module Assessment	60.00%

Assessments

Full Time

Coursework

Assessment Type:	Assignment	**% of total:**	40
Assessment Date:	n/a	**Outcome addressed:**	1,2,3,4,5,6
Non-Marked:	No		

Assessment Description:
n/a

End of Module Assessment

Assessment Type:	Terminal Exam	**% of total:**	60
Assessment Date:	End-of-Semester	**Outcome addressed:**	
Non-Marked:	No		

Assessment Description:
End-of-Semester Final Examination

No Workplace Assessment

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Module Workload

Module Target Workload Hours 0 Hours

Workload: Full Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	2	Every Week	2.00
Tutorial	No Description	2	Every Week	2.00
			Total Weekly Contact Hours	4.00

Workload: Part Time

Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	2	Every Week	2.00
Tutorial	No Description	2	Every Week	2.00
			Total Weekly Contact Hours	4.00

Module Resources

Recommended Book Resources

David M. Levine, Timothy C. Krehbiel, Mark L. Berenson.. Business Statistics: A First Course, 5th ed. Prentice Hall.

Supplementary Book Resources

Mark L Berenson, David M. Levine, Timothy C. Krehbiel. ,. Basic Business Statistics, 11th ed. Prentice Hall.

, Andrea Francis. Business Maths & Statistics, 5th ed. Letts Educational, : London,.

Donald Waters. Quantitative Methods for Business, 4th ed. Prentice Hall.

Sarah Boslaugh, Dr. Paul Andrew Watters.. Statistics in a Nutshell: A Desktop Quick Reference, 1st ed. O'Reilly Media.

This module does not have any article/paper resources

This module does not have any other resources

Discussion Note: