H8STATS: Statistics

Module Code:		BSTATS					
Long Title		tatistics APPROVED					
Title		atistics					
Module Level:		LEVEL 8					
EQF Level:							
EHEA Level:		t Cycle					
Credits:							
Module Coordinator:							
Module Author:		el O'Connor					
Departments:		School of Computing					
Specifications of the qualifications and experience required of staff		ster's and/or PhD degree in computing or cognate discipline. May have industry experience also.					
Learning Outcomes							
On successful c	completion of this modu	e the learner will be able to:					
#	Learning Outcome	Description					
LO1	Explain the principles	and uses of descriptive statistics and inferential statistics.					
LO2	Use Principles of sta	istical Inquiry					
LO3	Carry out analyses b	based on descriptive and inferential statistics within a business context					
LO4	Demonstrate the usa	ge of methodologies applied in prediction (forecasting)					
LO5	Use and understand	software tools for business data analysis (e.g. SPSS, R, Excel)					
Dependencies							
Module Recommendations							
No recommendations listed							
Co-requisite Modules							
No Co-requisite modules listed							
Entry requirements		See section 4.2 Entry procedures and criteria for the programme including procedures recognition of prior learning.					

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Module Content & Assessment

Indicative Content

Descriptive Statistics/Data Presentation

Arrangement, pre-processing and representation of data Measures of central tendency (mode, median, mean) Measures of dispersion (range, variance, standard deviation) Scales of Variables Statistical graphics & figures (e.g., pie chart, bar chart)

Inference Statistics
Standard Errors Hypothesis Testing Parametric Tests (e.g., T-Test, ANOVA, regression) Non-parametric Tests (e.g., chi-square tests)

Prediction/Forecasting

Simple Linear Regression Correlation Smoothing and filtering of data Nature of time series

Assessment Breakdown	%	
Coursework	50.00%	
End of Module Assessment	50.00%	

Assessments

Full Time

Coursework

Assessment Type:

Assessment Date:

Formative Assessment

% of total: Outcome addressed: Non-Marked

1,2,3,4,5

Non-Marked:

Yes

Assessment Description:

Formative assessment will be provided on the in-class individual or group activities.

Assessment Type: Assessment Date: Continuous Assessment

% of total:

50

Outcome addressed:

Outcome addressed:

1,2,3,4,5

Non-Marked:

Assessment Description:

Assessment will consist of week graded tutorials to carry out statistical analysis on sample data sets using tools such as Excel, R, and SPSS.

End of Module Assessment

Assessment Type: **Assessment Date:** Terminal Exam End-of-Semester % of total:

50

1,2

Non-Marked:

No

Assessment Description:

End-of-Semester Final Examination

No Workplace Assessment

Reassessment Requirement

Repeat examination

Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.

Reassessment Description

Repeat examination Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element

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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	24	Per Semester	2.00
Tutorial	No Description	12	Per Semester	1.00
Independent Learning	No Description	89	Per Semester	7.42
		Total Weekly C	ontact Hours	3.00
Workload: Online				
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	12	Per Semester	1.00
Tutorial	No Description	12	Per Semester	1.00
Directed Learning	No Description	12	Per Semester	1.00
Independent Learning	No Description	89	Per Semester	7.42
	-	Total Weekly C	ontact Hours	3.00
Workload: Part Time				
Workload Type	Workload Description	Hours	Frequency	Average Weekly Learner Workload
Lecture	No Description	24	Per Semester	2.00
Tutorial	No Description	12	Per Semester	1.00
Independent Learning	No Description	89	Per Semester	7.42
	·	Total Weekly C	ontact Hours	3.00

Module Resources

Recommended Book Resources

James T. McClave, Terry T. Sincich. Statistics, Global Edition, 13th Edition. [ISBN: 9781292161556].

Neil J. Salkind. (2016), Statistics for People Who (Think They) Hate Statistics (International Student Edition), Sage Publications, Incorporated, p.552, [ISBN: 9781506361161].

Supplementary Book Resources

Maindonald John,. (2008), , Using R for data analysis and graphics, r-project, Introduction, code and commentary, http://cran.

Andy Field, 2013,. Discovering Statistics Using IBM SPSS Statistics, 4th, Sage Publications Inc, London, p.915,.

McClave, James T., Benson, George & Sincich, Terry,. (2013), , Statistics for Business and Economics, 12th, Prentice Hall.

Peter Dalgaard. (2008), Introductory Statistics with R, Springer Science & Business Media, p.364, [ISBN: 9780387790534].

This module does not have any article/paper resources

This module does not have any other resources

Discussion Note:

Approved on behalf of SoC to allow for approval of parent programmes.