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MODULE SPECIFICATION PROFORMA

Version no:1

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Module Code:	COM451					
Module Title:	Quantitative Analysis					
Level:	4 Credit Value		alue:	20		
Cost Centre(s):	GACP	JACS3 code: HECoS code:		I111 100734		
Faculty:	Arts, Science and Technology		Module Leader:	Julie Mayers		
Scheduled learning and teaching hours 36 hrs						36 hrs
Guided independent study						164 hrs
Placement						0 hrs
Module duration (total hours)			200 hrs			
2001113						
Programme(s) in which to be offered (not including exit awards)CoreOption					Option	
BSc (Hons) Computing					✓	
BSc (Hons) Computing (with Industrial Placement)					✓	
Delivery as standalone or part of CPD package					✓	
Pre-requisites None.						

Module Aims

The module aims to provide students with an introduction to the use of statistical methods for the analysis of quantitative data using both Microsoft Excel and SPSS.

Intended Learning Outcomes

Key skills for employability

KS1	Written, oral and media communication skills
KS2	Leadership, team working and networking skills
KS3	Opportunity, creativity and problem solving skills
KS4	Information technology skills and digital literacy
KS5	Information management skills
KS6	Research skills
KS7	Intercultural and sustainability skills
KS8	Career management skills
KS9	Learning to learn (managing personal and professional development, self-
	management)
KS10	Numeracy

At	the end of this module, students will be able to	Key Skills	
	Design and develop flevible attructured approachages to	KS3	KS10
1	Design and develop flexible structured spreadsheets to perform numerical data modelling to solve business problems	KS4	
	perform numerical data modelling to solve business problems	KS5	
2	Produce charts, develop macros, sort data and use the functionality of spreadsheet software offered for optimisation calculations and data analysis	KS3	KS10
		KS4	
		KS5	
3	Identify and apply qualitative data collection methods and	KS3	KS10
		KS4	
	apply data analysis techniques	KS5	

Transferable skills and other attributes

- Information management
- ICT skills

Derogations			

None

Assessment:

Indicative Assessment Tasks:

The assessment will take the form of coursework (100%) which will be based around the design and manipulation of Spreadsheets, and principles of Data Analysis that will allow the student to gain practical skills. Formative assessment will be carried out through laboratory exercises, making use of relevant tasks and scenarios. Assessment 1 will be based on Spreadsheets, while Assessment 2 will look at SPSS.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1, 2	Coursework	50		
2	3	Coursework	50		

Learning and Teaching Strategies:

This module has an emphasis in the practical issues related to the design and manipulation of Spreadsheets, and principles of Data Analysis using SPSS. It will be delivered using a combination of formal lecturers, tutorials, practical demonstrations and lab sessions. Lectures will present the main concepts, while lab sessions will combine in-lab instruction and demonstrations with supervised exercises. These will be supported with additional materials, links to useful resources, additional exercises, peer support and tutor support in the VLE.

Syllabus outline:

- Using MS Excel
 - Produce high quality spreadsheet output;
 - Use the mathematical, logical, data organisation, information extraction and presentation functionality;
 - o Manipulate numeric, text and graphical data.
 - Produce of outputs from multiple workbooks, produce charts, develop macros, sort data and use the functionality offered for optimisation calculations.
 - Manipulate Macros; Forms; Nested Functions; Advanced Functions; Filtering Data; Auditing Data.
- SPSS and data analysis

Indicative Bibliography:

Essential reading

There are no essential textbooks; the module will use relevant online reference material and the lecture notes.

Other indicative reading

CiA Training Ltd, (2018). CiA Training.co.uk. [Online]

Available at: http://www.ciatraining.co.uk/

Poatsy, M.A. et al. (2016). Exploring Microsoft Office 2016 Vol 1. Boston: Pearson.

Field, A. (2018), Discovering statistics using IBM SPSS Statistics. 5th ed. London: Sage.

Manning, C. and Manning Swinson, S.L. (2017), *Microsoft Office 2016: A Skills Approach*. McGraw-Hill.

Stern, L. (2013), Visual Approach to SPSS for Windows. 2nd ed. Harlow: Pearson.