CORPORATE AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Basic Data						
Module Title	Statistics and Data Management					
Module Code	UMED8J-15-1		Level	1	Version	1.1
UWE Credit Rating	15	ECTS Credit Rating	7.5	WBL module?	No	
Owning Faculty	FBL		Field	Economics		
Department	BBS: Accounting, Economics and Finance		Module Type	Standard		
Contributes towards	BA (Hons)Economics, BSc (Hons)Economics; BA (Hons) Accounting and Finance, BA (Hons) Banking and Finance					
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements	N/A		
First CAP Approval Date	QMAC December 2011		Valid from	September 2012		
Revision CAP Approval Date	18 November 2015		Revised with effect from	September 2016		

Review Date	September 2018.

Part 2: Learning and Teaching	
Learning Outcomes	On successful completion of this module students will be able to demonstrate the following: 1. An awareness of the uses, abuses (and therefore proper use) and limitations of statistical data in economics, accounting and finance (Component A, Component B) 2. An ability to manage, manipulate and analyse data using Excel (Component A, Component B) 3. A command of foundational statistical concepts such as measures of location and dispersion, association and causation (Component A) 4. Competence in testing hypotheses using statistical methods (Component A) In addition the educational experience may explore, develop, and practise but not formally discretely assess the following: • The student's skills on beginning the module • Time management skills • Effective communication using written and verbal media • Independent and interdependent (group) working

Syllabus Outline	This module typically will cover:
	1. Uses, abuses and limitations of statistical analysis 2. handling data in Excel 3. data sources and their identification 4. types of data and their application 5. measures of location and dispersion 6. frequency and probability distributions 7. statistical hypothesis testing 8. correlation and causation 9. introduction to regression analysis
Contact Hours/Scheduled Hours	Module delivery will be based on 3 hours of scheduled learning and teaching activities per teaching week. This will consist of an alternating pattern of one lecture, two seminars/workshops in one week, and two lectures and one seminar/workshop the next week.
Teaching and Learning Methods	Lectures will focus on core material, with a particular focus on statistical theory and application, and the workings of Excel. Seminars will focus on revising and practising the lecture material. Workshops will be based in computer rooms and will emphasise electronic data collection and application and practice with Excel. In addition staff will be available during the semester during their office hours (2 hours a week) for face to face meetings. Queries and extended discussions with staff can also be approached virtually through e-mail. Extensive use will be made of Blackboard for weekly guided independent study work; to support students' learning; to facilitate interactions between students e.g. for group project work and to provide feedback with quizzes and forums. Students will also be directed towards the University Library online Study Skills resources http://www1.uwe.ac.uk/students/studysupport/studyskills.aspx for the development of skills appropriate to the level and style of the module. In addition a number of e-learning resources will also be used: [Of particular interest will be the pages on 'Being a student at level 1' • Learn Higher http://www.learnhigher.ac.uk/Students.html • Espresso Maths http://www.cems.uwe.ac.uk/mslc/
Key Information Sets Information	

Key Information Set - Module data

Number of credits for this module	15

Hours to be allocated	Scheduled learning and teaching study hours	Independent study hours	Placement study hours	Allocated Hours	
150	36	114	0	150	✅

The table below indicates as a percentage the total assessment of the module which constitutes a -

Written Exam: Unseen written exam, open book written exam, In-class test
Coursework: Written assignment or essay, report, dissertation, portfolio, project

	Practical Exam: Oral Assessment and/or presentation, practical skills assessment, practical exam
	Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:

Total assessment of the module:		
Written exam assessment percentage	50%
Coursework assessment percentage	50%
Practical exam assessment percentage	0%
	100%

Reading Strategy	
	All students will be encouraged to make full use of the print and electronic resources available to them through membership of the University. These include a range of electronic journals and a wide variety of resources available through websites and information gateways. The University Library web pages provide access to subject relevant resources and services and to the library catalogue. Many of these resources can be accessed remotely. Students will be presented with opportunities within the curriculum to develop their information retrieval and evaluation skills in order to identify such resources effectively.

Students will be directed and expected to undertake essential reading throughout the module. However, depending upon specific topics addressed over the course of the module, students will be expected to undertake additional reading for themselves. A list of indicative textbooks and relevant journals is provided below but students are expected to recognise that these may be starting points only and that they should extend their reading as widely as is necessary to demonstrate a comprehensive knowledge.

Blackboard – This module is supported by Blackboard, where students will be able to find all necessary module documentation, including guidance on Further Reading within the module handbook/outline. Direct links to information resources will also be provided from within Blackboard

UWE Libraries – Students will also be directed towards the University Library online Study Skills resources http://www1.uwe.ac.uk/students/studysupport/studyskills.aspx for the development of skills appropriate to the level and style of the module. In addition a number of e-learning resources will also be used.

Essential Reading
Students are expected to purchase or have open access to following text as it is considered core to the module:

Bradley, T. (2010). *Essential Statistics for Economics, Business and Management*, London: Wiley.

Further reading

In addition, students will be directed towards useful foundational texts to which they could refer. Students will be provided with a wide variety of written, audio and video texts that will be taken from journal articles, national and international newspapers and websites. Journal articles will be available electronically, or in the library. Students will be guided throughout the module as to the appropriate texts. Module guides will also reflect the range of reading to be carried out. |

| Indicative Reading List | The following list is offered to provide validation panels/accrediting bodies with an indication of the type and level of information students may be expected to consult. As such, its currency may wane during the life span of the module specification. CURRENT advice on additional reading will be available via the module guide or Blackboard pages.

Bradley, T. (2010). *Essential Statistics for Economics, Business and Management*, London: Wiley.

Bryman, A. and Bell, E. (2011). *Business Research Methods,* Oxford: Oxford University Press.

Barrow, M. (2001). *Statistics for Economics, Accounting and Business Studies*, London: Pearson.

Articles from academic journals and from national and international newspapers will be drawn on. These will include specific webpages that students will be recommended to read regularly as well as respected economic blogs. Within these websites there are video and audio recordings of respected economists and policy makers.

Academic and Practitioner Journals

Applied Economics
International Review of Applied Economics

Other relevant websites may include those which provide free online data, such as the OECD, the World Bank, the Economics Network, et al. |
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Part 3: Assessment

| Assessment Strategy | This module deploys a mix of formative and summative assessment. Formative assessment takes various forms and will occur throughout the module; it may include peer feedback on informal activities. The module will begin with a skills audit. Summative assessment will be multi-faceted. The first opportunity for summative assessment is a guided practical project. The examination will assess the entire module content and will occur at the end of the module.

Summative Assessment

Component A:
An end-of-module exam (Component A) will be conducted under controlled conditions to test knowledge of core concepts required for level 2. The two hour exam will consist of a variety of question types including, for instance, multiple choice questions, data response and a longer response (essay) question.

Component B:
A 1,500 word data management project asks students to demonstrate skills of obtaining, manipulating and analysing data using Excel; and to display the ability to comment coherently on economic, financial and statistical data.

    Formative Assessment:
1. Engagement with other students in seminars that encourages a sense of belonging.
2. Engagement with external speakers and with private sector businesses.
3. Regular VLE messages, including podcasts, provide generic feedback to groups on lectures, seminars and practical classes. |
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Identify final assessment component and element	Component A		
% weighting between components A and B (Standard modules only)		**A:**	**B**:
		50%	50%

First Sit	
Component A (controlled conditions) **Description of each element**	**Element weighting** (as % of component)
1. Examination 2 hours	100%
Component B **Description of each element**	**Element weighting** (as % of component)
1. 1,500 word data project	100%

Resit (further attendance at taught classes is not required)	
Component A (controlled conditions) **Description of each element**	**Element weighting** (as % of component)
1. Examination 2 hours	100%
Component B **Description of each element**	**Element weighting** (as % of component)
1. 1,500 word data project	100%
If a student is permitted a retake of the module the assessment will be that indicated by the Module Description at the time that retake commences.	