Module Descriptor

Title	Data Analysis		
Session	2025/26	**Status**	
Code	ACCT07007	**SCQF Level**	7
Credit Points	20	**ECTS (European Credit Transfer Scheme)**	10
School	**Business and Creative Industries**		
Module Co-ordinator	Dr Dalia Alazzeh		

Summary of Module

This module aims to demonstrate the application of basic mathematical concepts within an accounting context. The module will equip students with the ability to use probability in addressing risk and uncertainty. Students will learn how to collect and analyse data including descriptive statistics, how to calculate and interpret correlations, and how to apply simple regression analysis techniques. Also, students will acquire techniques used for indexing and basic financial modelling.

Module Delivery Method	**On-Campus[1]** ☒	**Hybrid[2]** ☐	**Online[3]** ☐	**Work -Based Learning[4]** ☐
Campuses for Module Delivery	☐ Ayr ☐ Dumfries	☐ Lanarkshire ☐ London ☒ Paisley	☐ Online / Distance Learning ☐ Other (specify)	

Terms for Module Delivery	Term 1	☐	Term 2	☒	Term 3	☐
Long-thin Delivery over more than one Term	Term 1 – Term 2	☐	Term 2 – Term 3	☐	Term 3 – Term 1	☐

[1] Where contact hours are synchronous/ live and take place fully on campus. Campus-based learning is focused on providing an interactive learning experience supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus contact hours will be clearly articulated to students.

[2] The module includes a combination of synchronous/ live on-campus and online learning events. These will be supported by a range of digitally-enabled asynchronous learning opportunities including learning materials, resources, and opportunities provided via the virtual learning environment. On-campus and online contact hours will be clearly articulated to students.

[3] Where all learning is solely delivered by web-based or internet-based technologies and the participants can engage in all learning activities through these means. All required contact hours will be clearly articulated to students.

[4] Learning activities where the main location for the learning experience is in the workplace. All required contact hours, whether online or on campus, will be clearly articulated to students

Learning Outcomes	
L1	Understand the use of basic mathematical concepts within organisations
L2	Apply the principles of probability where risk and uncertainty exist
L3	Apply mathematical techniques in collecting and analysing data including use of descriptive statistics, correlations, and simple regression analysis
L4	Demonstrate the techniques for indexing and basic financial modelling
L5	

Employability Skills and Personal Development Planning (PDP) Skills	
SCQF Headings	**During completion of this module, there will be an opportunity to achieve core skills in:**
Knowledge and Understanding (K and U)	**SCQF 7** Understand the use of brackets and powers; understanding the use and limitations of probabilities and expected values in decision making, as well as the concepts of risk and uncertainty; explaining and identifying the differences and main characteristics of data and information and demonstrating an understanding of how and why indices are used; Understanding the concepts of indices and financial models.
Practice: Applied Knowledge and Understanding	**SCQF 7** Solving simple equations and accurately calculate percentages and proportions and prepare simple linear graphs; calculating probabilities and expected values and apply them to given scenarios; applying Pareto Analysis to organisational problems; calculating seasonal factors and predicting values for time series
Generic Cognitive skills	**SCQF 7** Appreciating the application of mathematical techniques within decision making; evaluating data and information
Communication, ICT and Numeracy Skills	**SCQF 7** Understanding, selecting, and applying basic arithmetic, statistical and mathematical techniques; communicating results; using VLE;
Autonomy, Accountability and Working with Others	**Please select SCQF Level** Carrying out independent research; working effectively with others in study groups

Prerequisites	**Module Code**	**Module Title**
	Other	
Co-requisites	**Module Code**	**Module Title**

Learning and Teaching
In line with current learning and teaching principles, a 20-credit module includes 200 learning hours, normally including a minimum of 36 contact hours and maximum of 48 contact hours.

Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	**Student Learning Hours** (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture / Core Content Delivery	24
Tutorial / Synchronous Support Activity	12
Independent Study	164
Please select	
Please select	
Please select	
TOTAL	200

Indicative Resources
The following materials form essential underpinning for the module content and ultimately for the learning outcomes: Recommended Text Curwin J., Slater R, Eadson, D. (current ed) Quantitative Methods for Business Decisions, Cengage Learning Please ensure the list is kept short and current. Essential resources should be included, broader resources should be kept for module handbooks / Aula VLE. Resources should be listed in Right Harvard referencing style or agreed professional body deviation and in alphabetical order.
(N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements
In line with the Student Attendance and Engagement Procedure, Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time. **For the purposes of this module, academic engagement equates to the following:** Attending timetabled teaching sessions and accessing course-related learning resources.

Equality and Diversity
The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: UWS Equality, Diversity and Human Rights Code.
(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	**Accounting Finance Law**
Overall Assessment Results	☐ **Pass / Fail** ☒ **Graded**
Module Eligible for Compensation	☐ **Yes** ☒ **No** **If this module is eligible for compensation, there may be cases where compensation is not permitted due to programme accreditation requirements. Please check the associated programme specification for details.**
School Assessment Board	Business and Creative Industries
Moderator	Mohammed Sahadat Hossain
External Examiner	Samar Gad
Accreditation Details	This module contributes to the exemptions from various professional examinations attributable to the Bachelor of Accounting programme. Contact School for current details.
Module Appears in CPD catalogue	☐ **Yes** ☒ **No**
Changes / Version Number	

Assessment (also refer to Assessment Outcomes Grids below)
Assessment 1
Assessment 1 – Class Test 30%
Assessment 2
Assessment 2 – Final Examination 70%
Assessment 3
(N.B. (i) Assessment Outcomes Grids for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed. (ii) An indicative schedule listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Component 1							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Class Test	☒	☒	☒	☒	☐	30	1

Component 2							
Assessment Type	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**	**Weighting of Assessment Element (%)**	**Timetabled Contact Hours**
Final Examinatio n	☒	☒	☒	☒	☐	70	2

Component 3

Assessment Type	LO1	LO2	LO3	LO4	LO5	Weighting of Assessment Element (%)	Timetabled Contact Hours
	☐	☐	☐	☐	☐		
Combined total for all components						100%	3 hours

Change Control

What	When	Who