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MODULE DESCRIPTOR					
Module Title					
Quantitative Business Techniques					
Reference	BS2114	Version	8		
Created	August 2021	SCQF Level	SCQF 8		
Approved	July 2019	SCQF Points	15		
Amended	September 2021	ECTS Points	7.5		

Aims of Module

To provide students with an understanding of, and the ability to apply, a range of statistical and management science techniques.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Apply sampling methods and basic statistical techniques in business contexts.
- 2 Apply data modelling and forecasting techniques in business contexts.
- 3 Interpret results generated from specialized statistical computer software.
- 4 Understand basic financial mathematics.
- 5 Apply the techniques of risk management to decision-making problems.

Indicative Module Content

Classification of variables, sampling; financial mathematics symbols, index number; data presentation and measurement; probability distribution; confidence intervals and hypothesis testing; time series; high-low method; maximax, maximin, and minimax; decision tree; bayesian analysis; simple and multiple linear regression; use of statistical software Minitab.

Module Delivery

Topics are introduced in lectures and developed in computer laboratories and in tutorials for which students are expected to undertake directed independent learning.

Indicative Student Workload	Full Time	Part Time
Contact Hours	30	N/A
Non-Contact Hours	120	N/A
Placement/Work-Based Learning Experience [Notional] Hours		N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

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ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type: Examination Weighting: 100% Outcomes Assessed: 1, 2, 3, 4, 5

Description: Closed book examination

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

Component 1 comprises 100% of the module grade. To pass the module, a D grade is required.

Module Grade	Minimum Requirements to achieve Module Grade:	
Α	A	
В	В	
С	С	
D	D	
E	E	
F	F	
NS	Non-submission of work by published deadline or non-attendance for examination	

Module Requirements

Prerequisites for Module None.

Corequisites for module None.

Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

- ANDERSON, D., SWEENEY, D., WILLIAMS, T., FREEMAN, J. and SHOESMITH, E., 2024. *Statistics for business and economics*. 6th ed. Andover: Cengage Learning.
- OAKSHOTT, L., 2020. Essential Quantitative Methods for Business Management and Finance. 7th ed. Basingstoke: Palgrave.
- BOWERMAN, B., DROUGAS, A, M., DUCKWORTH, W, M., et al., 2019. *Business Statistics and Analytics in Practice*. 9th ed. McGraw Hill.
- 4 LESIK, S., 2018. Applied Statistical Inference with MINITAB?. 2nd ed. New York: Chapman and Hall/CRC.