

Business Mathematics and Statistics

Module Information

2022.01, Approved

Summary Information

Module Code	4501AFYPC
Formal Module Title	Business Mathematics and Statistics
Owning School	Business and Management
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery

LJMU Partner Taught

Partner Teaching Institution

Institution Name

YPC International College (Kolej Antarabangsa YPC)

Learning Methods

Learning Method Type	Hours
Workshop	44

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	1. To introduce different data types and the approaches required for analysis. 2. To enable the student to appreciate the role of statistical and mathematical methods in a business environment. 3. To develop an awareness of the scope and limitations of quantitative analysis. 4. To enable the student to formulate and evaluate problems. 5. To facilitate basic forecasting and hypothesis testing for data sets. 6. To develop student skills in linear programming techniques. 7. To use computer packages for data analysis.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Calculate a range of basic financial measures.
MLO2	2	Identify different data types, manipulate data and carry out simple statistical analysis including presenting data using appropriate graphs.
MLO3	3	Calculate and use various location and dispersion measures, and explore data to enable decision making for example use of linear programming to optimize use of resources.
MLO4	4	Undertake analysis of data including simple forecast of bivariate data and, interpreting hypotheses using suitable significance tests.

Module Content

Outline Syllabus	Calculate a range of basic financial measures.Introduction to data types, primary and secondary data sources, data presentation. Measures of location and dispersion and their uses. Confidence intervals, simple hypothesis tests. Regression and correlation. Probability.Financial mathematics, compounding, discounting and investment appraisal. Linear programming. Index numbers. Use of the Excel computer package.
Module Overview	
Additional Information	This module introduces basic mathematical and statistical concepts and relates them to business and accounting situations and provides a foundation for further studies in business and finance. The test is a diagnostic assessment; whilst the examination is the terminal summative assessment.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Diagnostic Test	20	0	MLO1
Exam	Closed Book Examination	80	2	MLO1, MLO2, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
James Fraser	Yes	N/A