

**Summary Information**

<b>Module Code</b>	4001LBSAF
<b>Formal Module Title</b>	Business Mathematics and Statistics
<b>Owning School</b>	Business and Management
<b>Career</b>	Undergraduate
<b>Credits</b>	20
<b>Academic level</b>	FHEQ Level 4
<b>Grading Schema</b>	40

**Module Contacts**

**Module Leader**

Contact Name	Applies to all offerings	Offerings
Catherine Fairhurst	Yes	N/A

**Module Team Member**

Contact Name	Applies to all offerings	Offerings
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**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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**Teaching Responsibility**

LJMU Schools involved in Delivery
Business and Management

**Learning Methods**

Learning Method Type	Hours
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Workshop	44
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## Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-MTP	MTP	September	12 Weeks

## Aims and Outcomes

<b>Aims</b>	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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## Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Calculate a range of basic financial measures.
MLO2	Identify different data types, manipulate data and carry out simple statistical analysis including presenting data using appropriate graphs.
MLO3	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	Undertake analysis of data including simple forecast of bivariate data and, interpreting hypotheses using suitable significance tests.

## Module Content

<b>Outline Syllabus</b>
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

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 module will introduce different data types and approaches required for analysis and enable you to appreciate the role of statistical and mathematical methods in a business environment.

## 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)	Learning Outcome Mapping
Test	Diagnostic Test	20	0	MLO1
Centralised Exam	Closed Book Examination	80	2	MLO2, MLO3, MLO1, MLO4