Module Documentation

MATH06007

Business Mathematics (Acct)

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MATH06007 Business Mathematics (Acct)

Short Title	Business Mathematics (Acct)				
Full Title	Business Mathematics (Acct)				
Attendance	N/A		Discipline	461 MATHEMATICS	
Coordinator	Clare OGrady		Department	Business	
Official Code	MATH06007	NFQ Level	06	ECTS Credit	05

Module Description

This module is intended to provide students with an introduction to a range of basic mathematical, quantitative, statistical, analytic and computational techniques which are of relevance in the business environment.

Learning Outcomes

On completion of this module the learner will/should be able to

1. Apply mathematical functions and equations in the solving of business problems.
2. Calculate statistical data and represent this diagrammatically.
3. Demonstrate an understanding of the wide applicability of quantitative techniques in business.
4. Use time series modeling to identify data trends and to make business forecasts.
5. Calculate expectation and probability to solve practical business problems.

Teaching and Learning Strategies

This module will be delivered by lecturers and tutorials.

Assessment Strategies

30% in class continuous assessment

70% end of year exam.

Repeat Assessment Procedures

Repeat exam

Module Dependencies

Prerequisite Modules

None

Corequisite Modules

None

Incompatible Modules

None

Indicative Syllabus

Basic Arithmetic Operations: Fractions, Decimals, Percentages, Sequences: (10%)

Probability; (20%)

- Set theory and enumeration
- Introduction to probability
- Conditional probability and expectation

Descriptive Statistics for Business: (25%)

- Calculation of Mean/Median/Mode/Standard Deviation
- Tabulation of Data
- Frequency Distribution
- Representing Data Diagrammatically
- Interpreting Statistical Charts and Graphs

Calculations in relation to the Business Operations: (20%)

- Simple and Compound Interest
- Depreciation
- CAR and APR
- Net Present Value
- Investment Analysis

Forecasting and Time Series: (25%)

- The use of the Time Series Model in Business Forecasting
- Identifying Trends and Seasonal Variations

Syllabi content will be delivered by lecturers.

CourseWork / Assessment Breakdown

CourseWork / Continuous Assessment	30 %
End of Semester / Year Formal Examination	70 %

Coursework Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week
Class Assessment	1,2,3,4,5	30	TBA

End Exam Assessment Breakdown

Description	Outcome Assessed	% of Total	Assessment Week
Final Exam	1,2,3,4,5	70	TBA

ACCS Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Open Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Distance Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Part Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Full Time Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld
Lecture	Not Specified	Lecture	3	Weekly	3.00
Tutorial	Not Specified	Tutorial	1	Weekly	1.00

Total Average Weekly Learner Workload 4.00 Hours

Online Learning Mode Workload

Type	Location	Description	Hours	Frequency	Avg Wkly Wrkld

Total Average Weekly Learner Workload 0.00 Hours

Module Resources

Module Book Resources

Module Alternate Book Resources

None

Module Other Resources

None

Module URLs

None

Additional Information

None

ISBN BookList

Book Details

Clare Morris 2007 *Essential Maths for Business and Management* Palgrave Macmillan
ISBN-10 1403916101 ISBN-13 9781403916105

Shelagh Hand 2001 *Business Calculations: Euro Edition* Gill & Macmillan Ltd
ISBN-10 0717132021 ISBN-13 9780717132027

Les Oakshott 2012 *Essential Quantitative Methods: For Business, Management and Finance* Palgrave Macmillan
ISBN-10 0230302661 ISBN-13 9780230302662

Andre Francis 2004 *Business Mathematics and Statistics* Cengage Learning EMEA
ISBN-10 1844801284 ISBN-13 9781844801282

Louise Swift 2010 *Quantitative Methods: For Business, Management and Finance* Palgrave Macmillan
ISBN-10 0230218245 ISBN-13 9780230218246