

Quantitative Methods for Economists

Module Code:	AFE4013-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Management
Subject Area:	Accounting, Finance and Economics
FHEQ Level:	FHEQ Level 4

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	24
Tutorials	12
Directed Study	164

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Semester 1 (Sep - Jan)
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims

To enhance your understanding of economic analysis by expanding your knowledge of the relevant mathematical and statistical methods with a range of applications across economics. We shall introduce the central quantitative methods used in economics, their problems and their solutions.

Outline Syllabus

Functions. Simultaneous equation solving. Linear algebra in matrix forms. Differential calculus. Constrained and unconstrained optimisation. Integration. Linear programming.

Probability distribution: discrete and continuous random variables. Sampling theory and confidence intervals. Hypothesis testing.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 Recognise, apply and discuss the fundamental tools of mathematics and mathematical statistics required for the understanding of economic and econometric analysis.
- 2 Apply foundation level quantitative methods to a range of economic problems.
- 3 3.1. Logical analysis and problem-solving.
3.2. Identify and explain appropriate approaches to solve economic and mathematical problems

Learning, Teaching and Assessment Strategy

The module will involve weekly lectures and biweekly seminars. The course will use tests in each semester to provide formative feedback to you on your progress, with summative assessment for the module being in the form of two examinations. The lectures and seminars will be supplemented with resources on the module VLE and MyMathLab.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Examination - closed book	Closed Book Examination - semester 1	1.5 hours	50%	No
Summative	Examination - closed book	Closed Book Examination - Semester 2	1.5 hours	50%	Yes
Referral	Examination - closed book	Supplementary - Closed Book Examination	3 hours	100%	Yes

Legacy Code (if applicable)

Reading List

To view Reading List, please go to [rebus:list](#).