

IB9MH-15 Quantitative Methods I

26/27

Department

Warwick Business School

Level

Taught Postgraduate Level

Module leader

Neil Stewart

Credit value

15

Module duration

10 weeks

Assessment

100% coursework

Study location

University of Warwick main campus, Coventry

Description

Introductory description

This module aims to provide doctoral students with skills and knowledge in quantitative analysis. The module introduces, at pace, core statistical methods alongside hands-on experience coding with business and management data.

Module aims

Understand how data can be used to conduct world leading research in business and management

Develop skills to interpret the results and analyses in world leading research

Develop skills to design and apply appropriate analysis strategies

Develop skills in coding for data analysis

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Coding in R
Wrangling data with dplyr
Visualising data with ggplot2
t-tests
Estimation and confidence intervals
ANOVA
Regression and multiple regression
Power
Repeated measures and panel data
Logistic regression and linear probability models
Poisson regression
Pre-registration
Experimental design and Qualtrix
githubg

Learning outcomes

By the end of the module, students should be able to:

- Understand the strengths and limitations of different types of data
- Design appropriate analysis strategies robustly test hypotheses
- Implement analyses using appropriate statistical packages and software, and interpret the results

Indicative reading list

[Reading lists can be found in Talis](#)

Subject specific skills

Understand the strengths and limitations of different types of data
Design appropriate analysis strategies robustly to test hypotheses
Implement analyses using appropriate statistical packages and software, and interpret the results

Transferable skills

Problem solving abilities
Communication skills.
Analytical skills.
Confidence as user of statistical software.

Study

Study time

Type	Required
Lectures	10 sessions of 3 hours (20%)
Private study	48 hours (32%)
Assessment	72 hours (48%)
Total	150 hours

Private study description

Reflective learning and reading.

Costs

No further costs have been identified for this module.

Assessment

You must pass all assessment components to pass the module.

Assessment group A1

	Weighting	Study time	Eligible for self-certification
Assessment component			
Individual assignment	100%	72 hours	Yes (extension)

Reassessment component is the same

Feedback on assessment

Module leader feedback.

Availability

Post-requisite modules

If you pass this module, you can take:

- IB9MD-15 Quantitative Methods II

There is currently no information about the courses for which this module is core or optional.