

IB9ME-15 Learning from Data: Being a Good Consumer of Quantitative Analysis

26/27

Department

Warwick Business School

Level

Taught Postgraduate Level

Module leader

Nick Lee

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 those with no prior training in quantitative analysis, and who may now wish to conduct quantitative research with the tools to usefully interpret, evaluate, and use, quantitative research in their own work. It also serves as a foundation for ongoing study for those with no background at all in quantitative analysis.

Module aims

- i) Understand the foundational principles of quantitative research in management.
- ii) Develop the ability to understand and evaluate quantitative research results, and use them in their own work.
- iii) Prepare students for further study of quantitative methods if they wish.

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.

1. Science and Quantitative Methods?
2. Using numbers to summarize and communicate
3. Principles of Measurement
4. Statistical Foundations and Hypotheses
5. Understanding Association and Causation
6. Regression
7. Group comparisons
8. Algorithms, Analytics, and 'Big Data'
9. Effect sizes and intervals
10. Making Claims, Good Scientific Practice and Open Science

Learning outcomes

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

- Understand the core principles and uses of quantitative analysis in business research and science
- Understand the link between research questions, scientific hypotheses, and data analysis
- Be able to confidently read, interpret, and use the results of quantitative management research
- Have the skills to implement key types of quantitative analysis, and the foundations for further study

Indicative reading list

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

Subject specific skills

An in-depth understanding of assumptions underlying quantitative analyses

An in-depth knowledge of the presented methods to answer management research questions.

Transferable skills

Problem solving abilities.

Communication skills.

Analytical skills.

Confidence as a user of management research.

Confidence as user of statistical software.

Study

Study time

Type	Required
Lectures	10 sessions of 3 hours (20%)
Private study	120 hours (80%)
Total	150 hours

Private study description

Self study and reflective learning.

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%		Yes (extension)
Reassessment component is the same			

Feedback on assessment

Module leader feedback.

Availability

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