

Liverpool John Moores University

Title: Introduction to Quantitative Methods in Research
Status: Definitive
Code: **7003MRES** (124566)
Version Start Date: 01-08-2019

Owning School/Faculty: Education
Teaching School/Faculty: Education

Team	Leader
John Harrison	Y
Ian Jones	
Ian Davies	

Academic Level: FHEQ7 **Credit Value:** 20 **Total Delivered Hours:** 25

Total Learning Hours: 200 **Private Study:** 175

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	8
Practical	6
Seminar	8
Tutorial	3

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Design/administer a data collection tool and critically evaluate the merit of this tool	100	

Aims

The module will introduce students to the philosophical underpinnings of quantitative approaches to research and connect that thinking to broader paradigmatic issues.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically analyse the epistemological and ontological underpinnings of working within a positivist/post-positivist paradigm
- 2 Critically explore approaches to quantitative research design in education, health and social care settings
- 3 Critically evaluate sampling, data collection tools and analytic strategies used in quantitative research
- 4 Critically examine a range of quantitative processes and outcome measures appropriate to education, health and social care research

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Essay	1	2	3	4
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Outline Syllabus

Introduction to Positivist philosophy
Introduction to quantitative methods in the social sciences
Designing an experimental and correlational quantitative study
Strategies to minimise bias and minimise threats to validity
Sampling in quantitative inquiry
Designing and validating a data collection tool
Choosing outcome measures
Introduction to data management and analysis

Learning Activities

Lecture
Discussion/seminars
Practical work
Reflection on course material and connections to theory

Notes

The module will introduce students to the various debates associated with quantitative research for health, social and educational research. It will provide students with an insight into the various methods, design and analysis used in quantitative research.