

## Research Methods

### Module Information

2022.01, Approved

#### Summary Information

Module Code	7108SPOSCI
Formal Module Title	Research Methods
Owning School	Sport and Exercise Sciences
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

#### Teaching Responsibility

LJMU Schools involved in Delivery
Sport and Exercise Sciences

#### Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	10

#### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

#### Aims and Outcomes

Aims	This module of study is available to provide mastery and expertise in quantitative research strategies, methods and techniques, specifically focussed on quantitative data so that students can undertake postgraduate research. The module aims to encourage critical understanding of how quantitative data should be handled and analysed using a variety of approaches. The module will provide the opportunity to develop critical analysis of statistical concepts and procedures, train them to use statistical analysis software and extend their knowledge of the experimental and research design process.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Critically evaluate the appropriateness of experimental designs and research methodologies
MLO2	2	Exhibit good decision making in the choice and application of data processing and statistical analysis procedures
MLO3	3	Apply, report and interpret statistical analyses of quantitative data

### Module Content

Outline Syllabus	Experimental design Basic significance tests Confidence Intervals Effect size ANOVA Regression and correlation Sample size estimation Validity and reliability assessment
Module Overview	<p>This module of study is available to provide mastery and expertise in quantitative research strategies, methods and techniques, specifically focussed on quantitative data so that students can undertake postgraduate research. The module aims to encourage critical understanding of how quantitative data should be handled and analysed using a variety of approaches. The module will provide the opportunity to develop critical analysis of statistical concepts and procedures, train them to use statistical analysis software and extend their knowledge of the experimental and research design process.</p> <p>This module is fundamental to the analysis of quantitative data. It is expected that students develop the data handling and analysis skills that they will directly use in their MSc project.</p>
Additional Information	This module is fundamental to the analysis of quantitative data. It is expected that students develop the data handling and analysis skills that they will directly use in their MSc project.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	research design critique	30	0	MLO1
Centralised Exam	Statistical evaluation	70	2	MLO2, MLO3

### Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Mark Scott	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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