

Liverpool John Moores University

Title: RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY
2
Status: Definitive
Code: **5003PSEN** (119921)
Version Start Date: 01-08-2016

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

Team	Leader
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Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 46
Total Learning Hours: 240 **Private Study:** 194

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	45

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	EXAM		20	1
Portfolio	QUANT REP		40	
Report	QUAL REP		40	

Aims

1. To examine the rationale behind and use of quantitative and qualitative methods in psychological research
2. To analyse data using advanced statistical procedures such as analysis of

variance, regression analysis and analysis of covariance

3. *To enable you to gain further experience of using SPSS to analyse data*
4. *To enable you to obtain practical experience of designing and conducting studies*
5. *To investigate the epistemological and ontological assumptions underlying the natural scientific paradigm and to explore epistemologies in qualitative methods.*

Learning Outcomes

After completing the module the student should be able to:

- 1 Design, conduct and report research in psychology using advanced quantitative statistics and grounded theory
- 2 Critically evaluate the strengths and weaknesses of published research studies
- 3 Choose appropriate methods to analyse data
- 4 Interpret analysis produced by a computer-based statistical package (SPSS)

Learning Outcomes of Assessments

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

EXAM	4		
QUANTITATIVE REPORT	1	2	3
QUALITATIVE	1	2	3

Outline Syllabus

- *Reliability analysis*
- *One-way and factorial (independent, repeated measures and mixed) ANOVA.*
- *Analysis of covariance (ANCOVA)*
- *Multivariate analysis of variance (MANOVA)*
- *Bivariate and multiple regression analysis*
- *Effect size*
- *Philosophical development of and epistemological background to qualitative research*
- *Qualitative data gathering procedures*
- *Overview of qualitative methods, focusing on grounded theory*
- *Assessing quality in qualitative research.*

Learning Activities

A variety of teaching and learning strategies are employed in this module. These include lectures and workshops for developing and practising statistical and other

research skills. Workshop tutors will provide support and guidance with these tasks and assist you with any problems that you might experience in making best use of the lecture material. You will complete two practical projects, one using quantitative methods and the other using qualitative methods. Supervision will be provided for these by workshop tutors.

Notes

This module examines the rationale behind and use of quantitative and qualitative research designs in psychology. You will use the understanding gained to design, conduct and report studies using examples of the designs. You will be guided in data analysis methods for a range of designs using analysis of variance and other advanced analytical techniques. This will include the use of computer-based packages for the purposes of statistical analyses. A number of critical issues arising in relation to psychological research will also be examined.