

Liverpool John Moores University

Title: RESEARCH METHODS AND STATISTICS IN PSYCHOLOGY
1: RELATIONSHIPS AND ASSOCIATIONS
Status: Definitive
Code: **4502PSYSLI** (127489)
Version Start Date: 01-08-2021
Owning School/Faculty: Psychology
Teaching School/Faculty: Sri Lanka Institute of Information Technology

Team	Leader
Simon Cooper	Y

Academic Level: FHEQ4
Credit Value: 10
Total Delivered Hours: 32
Total Learning Hours: 100
Private Study: 68

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	10
Workshop	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	Port	A portfolio of a practical report and a results section	100	

Aims

1. To introduce the tools for carrying out a literature search.
2. To develop an understanding of basic statistical concepts, descriptive statistics, correlation, and chi square.
3. To use SPSS to carry out statistical analyses.
4. To give practical experience of correlational and observational (analysed qualitatively and quantitatively) research methods.
5. To develop practical report writing skills.

Learning Outcomes

After completing the module the student should be able to:

- 1 Write a practical report conforming to APA style.
- 2 Employ the appropriate statistical test, and interpret its outcome.
- 3 Demonstrate a basic knowledge of the generic principles of research design, and statistical analysis.

Learning Outcomes of Assessments

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

Portfolio	1	2	3
-----------	---	---	---

Outline Syllabus

The module will explore different approaches to research design, for example, experimental, observational and survey, as well as within and between subject approaches. Data analysis will explore scales of measurement, descriptive statistics, variance and standard deviation, correlation and chi-square using SPSS. The module will explore research report writing. Students will gain experience of observations from a qualitative and quantitative perspective, and will develop awareness of ethical principles and processes in research design.

Learning Activities

1. Attend lectures and workshops
2. Use SPSS statistical software
3. Use LJMU Findit and other databases to find literature.
4. Complete coursework tasks
5. Complete prescribed reading

Notes

This module provides students with a practical introduction to how to design an experiment, collect data in an ethical manner, perform statistical analysis and write up findings in a manner consistent with published material. Throughout the module students will be required to use computers to conduct literature searches and to perform statistical analysis. In the module students will be introduced to the basic principles of research design and descriptive analysis, they will then learn more complex statistical tests for relationships (correlation) and associations (chi squared). Students will gain practical experience of observations and will compare and contrast qualitative and quantitative methods of observational research. Students will demonstrate their learning through the coursework task by writing a scientific

practical report and an additional results section. Both components together ensure both depth and breadth of understanding.