**Liverpool** John Moores University

Title:             Data Analysis
Status:            Definitive
Code:              **7002MRES**   (124564)
Version Start Date: 01-08-2019

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

| Team | Leader |
|---|---|
| Ian Jones | Y |
| Robyn Lotto | |
| Jo Frankham | |

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|---|---|---|---|---|---|---|
| **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 |
|---|---|---|---|---|
| Report | AS1 | Data analysis exercise 4500 word equivalent | 100 | |

**Aims**

*To introduce students to key concepts in the analysis of research data used in educational, health and social care research.*

**Learning Outcomes**

After completing the module the student should be able to:

1       Critically explore key concepts of data analysis for qualitative and quantitative data.
2       Critically evaluate the organisation and management of different types of data.
3       Apply appropriate analytical techniques to specific categories of data
4       Critically reflect on the process of analysing data

**Learning Outcomes of Assessments**

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

Data analysis exercise        1       2       3       4

**Outline Syllabus**

*Introduction to core principles of data management*
*Principles of quantitative data analysis*
*Principles of qualitative data analysis*
*Data presentation*
*Qualitative specialism:*
*• Grounded theory*
*• Discourse analysis*
*• Analysing websites*
*• Coding interview data*
*Quantitative specialism:*
*• Normal distribution and measures of central tendency*
*• Inferential and descriptive statistics*
*• Hypothesis testing, probability and confidence intervals*
*• Parametric and non-parametric statistics*
*• The practical process of analysing data using SPSS*

**Learning Activities**

Lecture components
Discussion/seminars
Practical activities
Reflection

**Notes**

This module will introduce students to core concepts in the analysis of qualitative and quantitative data.  This will equip all students with the capacity to review the

appropriateness of the techniques used to analyse data in published research.  In addition, students will have the opportunity to examine in more depth specific issues related to qualitative or quantitative research in line with their research preferences.