

MODULE DESCRIPTOR

Module Title

Research: Statistics And Data Analysis

Reference	SS2013	Version	5
Created	May 2017	SCQF Level	SCQF 8
Approved	June 2002	SCQF Points	15
Amended	August 2017	ECTS Points	7.5

Aims of Module

To introduce the student to descriptive and inferential statistics used in social science research.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Demonstrate knowledge of the role of statistics and data in research.
- 2 Select appropriate statistical and data analysis techniques.
- 3 Apply appropriate statistical and data analysis techniques.

Indicative Module Content

The role of statistics and data in hypothesis testing: descriptive/inferential approach. Types of data: quantitative and qualitative. Data visualisation: descriptive statistics (measures of central tendency and variability and how to present them). Populations and samples, frequency distributions. Types of statistical tests; parametric/non parametric; design factors and choice of test. Correlation, t tests (and equivalents) and introduction to ANOVA. Computer packages and their use.

Module Delivery

This module will involve lectures, seminars and practical sessions. Seminars will be used to provide the opportunity to use statistical techniques and software packages.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	24	N/A
Non-Contact Hours	126	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type: Examination Weighting: 50% Outcomes Assessed: 1
 Description: Component 1 will be assessed by examination.

Component 2

Type: Coursework Weighting: 50% Outcomes Assessed: 2, 3
 Description: Component 2 will be assessed by written coursework.

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

The examination (refer to x axis on top of grid) contributes 50% to the module total. The coursework (refer to y axis on left side of grid) contributes 50% to the module total.

		Examination:						NS
		A	B	C	D	E	F	
Coursework:	A	A	A	B	B	C	E	
	B	A	B	B	C	C	E	
	C	B	B	C	C	D	E	
	D	B	C	C	D	D	E	
	E	C	C	D	D	E	F	
	F	E	E	E	E	F	F	
NS		Non-submission of work by published deadline or non-attendance for examination						

Module Requirements

Prerequisites for Module None, in addition to SCQF 8 entry requirements or equivalent.
 Corequisites for module None.
 Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

- 1 DANCEY, C., 2020. *Statistics without maths for psychology*. 8th ed. USA: Pearson.
- 2 GRIMM, L. G., 1993. *Statistical Applications for the Behavioural Sciences*. 4th ed. USA: John Wiley and Sons.
- 3 HOWELL, D. C., 2012. *Statistical Methods for Psychology*. 8th ed. Belmont, C.A: Duxbury Press
- 4 KINNEAR, P. and GRAY, C. D., *SPSS (Versions 19-25 are applicable) Made Simple*. East Sussex: Psychology Press.
- 5 PALLANT, J., 2016. *SPSS Survival Manual*. 6th ed. Maidenhead, England: McGraw-Hill Education.