

MODULE DESCRIPTOR

Module Title

Research: Statistics And Data Analysis

Reference	SS3090	Version	1
Created	December 2021	SCQF Level	SCQF 9
Approved	February 2022	SCQF Points	15
Amended		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 Employ appropriate statistical and data analysis techniques.
- 3 Critically 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. Positionality of research and researcher.

Module Delivery

This is a mainly lecture based module with supporting seminars/workshops and student-centred learning. The on-campus activities will be supplemented and supported with online activities where appropriate.

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 9 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., 2013. *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., 2020. *SPSS Survival Manual*. 7th ed. Maidenhead, England: McGraw-Hill Education.