Module Code:	PSY509

Module Title:	Advanced Research Design

Level:	5	Credit Value:	20

Cost Centre(s):	GAPS	JACS3 code:	C800

School:	Social & Life Sciences	Module Leader:	Dr Joshua Payne

Scheduled learning and teaching hours	30 hrs
Guided independent study	170 hrs
Placement	0 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered (not including exit awards)	Core	Option
BSc (Hons) Psychology	✓	☐

Pre-requisites
None.

Module Aims

To provide the students with advanced knowledge and understanding of research methodology and research methods in order that they can go forward to conduct an independent piece of research.

Intended Learning Outcomes

Key skills for employability

KS1   Written, oral and media communication skills
KS2   Leadership, team working and networking skills
KS3   Opportunity, creativity and problem solving skills
KS4   Information technology skills and digital literacy
KS5   Information management skills
KS6   Research skills
KS7   Intercultural and sustainability skills
KS8   Career management skills
KS9   Learning to learn (managing personal and professional development, self-management)
KS10   Numeracy

At the end of this module, students will be able to		Key Skills	
1	Critically evaluate the use of different methods and methodologies (to include quantitative and qualitative) for specific questions and areas of practice, and apply this to research articles.	KS1	KS6
		KS2	
		KS5	
2	Differentiate between sampling procedures and their statistical relevance.	KS6	
		KS5	
		KS3	
3	Discuss the interpretation of findings and implications of data analysis, synthesising this interpretation with relevant literature.	KS6	
		KS5	
		KS10	
4	Produce a research proposal for an independent empirical project.	KS10	KS5
		KS1	KS6
		KS3	

Transferable skills and other attributes

Communication skills
IT skills including SPSS
Presenting and interpreting data
Planning a project

Derogations
None.

Assessment:					
Indicative Assessment Tasks:					

1. A portfolio carried out within the practical sessions consolidating knowledge of data analysis, including a poster presentation of a paper to be presented at the Annual Psychology Conference.

2. A research proposal for an independent piece of research to be carried out by the student at level 6. It is envisaged that normally this will be a precursor to the level 6 research project. (However, this may be a separate piece of research undertaken by the student.)

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1,2,3	Portfolio	50%	N/A	2,000
2	4	Research Proposal	50%	N/A	2,000

Learning and Teaching Strategies:
The module is delivered over 12 weeks, and the learning and teaching strategy will employ formal lecture, group and independent working. The prime strategy will be 'learning by doing', this will be achieved through structured class based practical/workshop sessions. Students are also encouraged to engage with the opportunity to experience presenting a poster to their peers at the Annual Psychology Conference.

Syllabus outline:
- Consolidation of research methods knowledge   - ANCOVA   - Factor analysis   - Secondary data analysis   - IPA   - Grounded Theory   - Produced a research proposal

Indicative Bibliography:

Essential reading

Textbooks

Bourne, V. (2017). *Starting out in methods and statistics for psychology: A hands-on guide to doing research.* Oxford, UK: Oxford University Press. Resource finder link

Denscombe, M. (2012). *Research proposals: A practical guide.* Maidenhead: Open University Press. Resource finder link

Harris, P. (2008). *Designing and reporting experiments* (3rd ed.). Maidenhead: Open University Press. Resource finder link

de Winter, P. & Cahusac, P. (2014). Starting out in statistics: An introduction for students of human health, disease, and psychology. Chichester, UK: Wiley Blackwell. Resource finder link

Software

Jamovi, open-source statistical analysis software. Download the solid version (1.1.9 or later) from this link: Jamovi link [v.1.1.9 solid or later].

Open-access resources

Cuttler, C., Jhangiani, R. S., & Leighton, D. C. (2019). *Research methods in psychology* [4th ed.]. Open-access link

Payne, J. S. (2020): *PSY412: Introduction to Research Method*s [Curated open-access chapters from the NOBA project]. Open-access link

Wendorf, C. (2019). Statistics for Social Science: A sourcebook of basic statistical methods [online summary notes on reporting results and analyses]. Open-access link

Other indicative reading

Howell, D.C. (2007). *Statistical methods for psychology.* (6th ed.). Belmont, CA: Thomson Wadworth.

Greenhalgh, T. (2019). *How to read a paper: The basics of evidence-based medicine and healthcare.* London, UK: WILEY Blackwell. Online chapters

Rowntree, D. (2018). *Statistics without Tears: An Introduction for Non-Mathematicians.* London, UK: Penguin

Vickers, A. (2010). *What is a p-value anyway? 34 Stories to Help You Actually Understand Statistics.* New York, NY: Pearson.

Students will also be directed to other relevant reading dependent on the nature of the data to be analysed for their research report.

Journals

No specific journals required for this module but every opportunity will be taken to introduce students to original articles.