

ECAP4006 Research Methods: An Introduction.
Module leader: Dr Charlotte Greenway

	Recorded lecture (one hour)	On campus seminar	F2F seminars (Two hours – bi-weekly)	Additional online engagement activities/key readings
1	Introduction to Research Methods: scientific method 1. Hypothetico-deductive research and Inductive research 2. Data gathering techniques - sampling 3. Ethics	Discussion about the key studies that influenced the need for ethical consideration. Quiz – TEAMS on lecture one's content Ethical consideration Panel: Group session For this session you will be taking on the role of an ethics panel. You will read summaries of three studies all of which have been submitted by researchers to your ethics panel for consideration.		Please watch the video and answer the 8 questions on ethics on moodle https://clickv.ie/w/L8so Reading: Introduction to ethics in psychology: Historical and philosophical grounding. https://ezproxy.uwtsd.ac.uk/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=pdh&AN=2015-18478-001&site=ehost-live Chapter two: ethics. Sanders, L. D. (2010). <i>Discovering research methods in Psychology: A student's guide</i>. John Wiley & Sons. Chapter two and three: Howitt, D. (2014). <i>Introduction to Research Methods in Psychology fourth edition</i>. Pearson. Please visit the Psychology Discipline page on moodle and familiarize yourself with the BPS ethical documentation. https://www.bps.org.uk/news-and-policy/bps-code-ethics-and-conduct
2	Methods and design: 1. Cross-sectional/longitudinal studies 2. What is a theory? 3. Falsifiability 4. Hypothesis 5. Operationalising	Task: answer fourteen questions on the design of experiments Vignettes – group work For eg. Questions about sampling techniques, confounding variables and identifying the IVs and DVs Complete the research vignettes (on moodle) Reflective log discussion -EMS		Please watch the video key studies in Ethics https://clickv.ie/w/yDOI Reading: Please read the 6 Methods of data collection and analysis on moodle.

	6. Conditions and variables 7. Participants in designs 8. Placebo, experimenter effects and demand characteristics 9. Types of experiment		Chapter four: Haslam, S. A., & McGarty, C. (2014). <i>Research methods and statistics in psychology</i> . Sage.
3	Numerical Data Analysis and Statistical Tests 1. Descriptive statistics 2. Interpretive statistics 3. Measures of central tendency 4. Measures of dispersion 5. Normal Distribution 6. Standard Deviation 7. Types of data 8. Intro to stats testing 9. Para- and non-parametric tests	Create an experiment In groups of 3 or 4 create an experiment that measures test anxiety and cognition Important things to consider: How will you measure cognition (task)? How will you manipulate test anxiety? IV and DV? Who will be your participants? What confounding variables will you have to control for? What will be your design (between/within)? What will be your hypothesis? What are the ethical issues here?	Please watch the video and answer the questions https://clickv.ie/w/G90g (also available on moodle) Reading: Research methods book chapter.pdf http://lib.oup.com.au/secondary/science/Psychology/3and4/Oxford-Psychology-3-and-4-2e-Ch1-Research-methods-in-psychology.pdf Chapter five and six: Haslam, S. A., & McGarty, C. (2014). <i>Research methods and statistics in psychology</i> . Sage.
<i>READING WEEK</i>			
4	Introduction to using SPSS 1. A look around SPSS 2. Descriptive statistics with SPSS 3. Transforming data and creating a simple chart	Report 1: run the experiment (WLE) Collate scores and discuss descriptive stats/method Run analysis using the crib sheet - Wilcoxon Write up results	Reading: Brace, N., Snelgar, R., & Kemp, R. (2016). <i>SPSS for psychologists: And everybody else</i> . Macmillan International Higher Education. Howitt, D. (2014). <i>Introduction to Research Methods in Psychology</i> fourth edition. Pearson.

5	Report writing and creating graphs and tables	Practice SPSS skills: work your way through the practice examples on moodle 1. Park data (Input the data from the excel sheet on moodle and follow instructions to complete the task) Create tables/graphs task	Practice SPSS skills: work your way through the practice examples on moodle 1. Wilcoxon 2. Mann-whitney Reading: McBride, D. M. (2018). The process of research in psychology. Sage Publications. Field, A. (2017). Discovering statistics using IBM SPSS statistics: North American edition. Sage.
6	Nominal data: Chi-square test by hand	Chi-Square using SPSS Practice SPSS skills: work your way through the practice examples on moodle Practice SPSS skills: work your way through the practice examples on moodle 1. One variable chi-square 2. Two variable chi-square	Reading: Salkind, N. J., & Frey, B. B. (2019). Statistics for people who (think they) hate statistics. Sage Publications, Incorporated.
7	Significance testing t-tests	Practice SPSS skills: work your way through the practice examples on moodle 1. Related t-test 2. Unrelated t-test Report 2 – experiment 2: t- test Run analysis Discuss write-up for R2 (recap of key things for research)	Reading: Salkind, N. J., & Frey, B. B. (2019). <i>Statistics for people who (think they) hate statistics</i>. Sage Publications, Incorporated.
8	Non-experimental designs: Correlation and surveys	Correlation: altruism and extraversion questionnaire task Practice SPSS skills: work your way through the practice examples of	Please watch the video https://clickv.ie/w/d7bm

		Correlations	Reading: Brace, N., Snelgar, R., & Kemp, R. (2016). SPSS for psychologists: And everybody else. Macmillan International Higher Education.
9	Observational research (Quantitative)	Mock open-book/ethics test Watch the video in preparation for the seminar http://www.youtube.com/watch?v=7nQxWCn_dBg Collecting data through observation https://moodle.uwtsd.ac.uk/pluginfile.php/491834/mod_resource/content/1/ch12CollectingDatathrough_Observation-BarbaraKawulich.pdf Observational research tasks – based on the observational video you watched Report on children’s play. Decide what type of play you will observe (see types of play), and using ALL data collection methods, report your findings. Decide if you are observing one or multiple children. End of module quiz	Reading: Field, A. (2017). <i>Discovering statistics using IBM SPSS statistics</i> : North American edition. Sage. Papatheodorou, T., Gill, J., & Luff, P. (2013). Child observation for learning and research. Oxon England: Routledge. Robson, C. (2011). Real-world research : a resource for users of social research methods in applied settings (3rd ed.). Wiley. Smidt, S. (2015). Observing young children : the role of observation and assessment in early childhood settings (2nd ed.).

1-Jan 30th
2-Feb 6th
3-Feb 13th
RW,
4-Feb 27th,
5- Mar 6th
6-Mar 13th

7-Mar 20th

8-March 27th

9-April 24th

Report (1,000 words) 25% Friday 14th March, 2023 (via Turnitin 23.59pm).

Report (1,500 words) 35% Monday 25th April, 2023 (via Turnitin 23.59pm)

In class open book test (1 hour) 30% Friday 3rd May, 2023 10am

Reflective log (500 words) 10% Wednesday 21st Feb, 2023 (via Turnitin 23.59pm).