

PS652 Statistical and Quantitative Approaches for Psychology

Module Coordinator: Dr Michael Daly

Credit Weighting: 10

Semester: 1

Teaching Methods: 36h lectures

36h laboratory

60h planned learning activities

106h independent learning

Total: 240h

Module Objective: To introduce quantitative statistical approaches in psychological research.

Module content:

- Descriptive statistics
- Statistical inference and hypothesis testing
- Chi-square
- T-tests
- ANOVA
- Multiple Regression
- The use of SPSS in psychology

Learning Outcomes: On successful completion of the module, students should be able to:

- Outline the use and interpretation of statistical tests as applied to psychological data;
- Explain key technical terms and concepts relating to data analysis and interpretation;
- Understand central tendency, variability, and the normal curve;
- Compute descriptive and inferential statistics;
- Describe the theoretical basis, applications and limitations of t-tests and analysis of variance (ANOVA) techniques;
- Identify the theoretical basis, applications and limitations of multiple regression;
- Conduct thorough statistical analyses on psychological data sets to test stated hypotheses.

Assessment: Continuous Assessment: 100%

Compulsory Elements: All continuous assessment.

Pass Standard and any Special Requirements for Passing Module: 40%.

Reading:

SPSS Survival Manual. Julie Pallant, Routledge, 7th ed.

Basic statistics for psychologists. Marc Brysbaert, Red Globe Press, 2nd Ed.

Understanding Statistics in Psychology with SPSS. Howitt and Cramer, Pearson, 8th Ed.