



Course Syllabus

Course Code	Course Title	ECTS Credits
PSY-295	Research Methods and Statistics II	6
Prerequisites	Department	Semester
PSY-245	Social Sciences	Fall
Type of Course	Field	Language of Instruction
Required	Psychology	English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Dr Menelaos Apostolou	3 rd
Mode of Delivery	Work Placement	Co-requisites
Face-to-face	N/A	None

Course Objectives:

The main objectives of the course are to:

- Introduce students to the basic statistical skills for the analysis of data obtained in psychological research. The course begins with descriptive statistics (techniques of summarizing or describing research findings) and progresses to inferential statistics (techniques for making predictions about general populations based on the findings from specific samples).

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Calculate descriptive statistics
2. Calculate correlation
3. Calculate Chi-Square for Tests of Goodness of Fit and Tests of Independence
4. Calculate t-tests and the non-parametric alternatives
5. Calculate one-way and two-way ANOVA and the non-parametric alternatives
6. Calculate regression and multiple regression
7. Develop statistical skills using SPSS.
8. Be able to write a research report in APA style.

Course Content:

<ol style="list-style-type: none"> 1. Descriptive Statistics 2. t-tests 3. Correlation 4. Analysis of Variance (ANOVA) 5. Mann-Whitney-U 6. Wilcoxon Signed Rank Test 7. Regression
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Learning Activities and Teaching Methods:

Interactive Lectures, Lab Presentations, Project, Lab Tutorials, Practical Exercises
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Assessment Methods:

Project, Mid-Term Exam, Final Exam.

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
An Introduction to Statistics and Research Methods: Becoming a Psychological Detective	Davis, D.F. & Smith R. A.	Pearson	2020	978-0131505117

Recommended Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
SPSS Survival Manual (7 th Edition)	Pallant, J.	Open University Press.	2020	978-0335249497