UNIVERSITY of NICOSIA

Course Syllabus

Course Code	Course Title	ECTS Credits
PSY-195	Research Methods and Statistics II	6
Prerequisites	**Department**	**Semester**
PSY-145	Social Sciences	Spring
Type of Course	**Field**	**Language of Instruction**
Required	Psychology	English
Level of Course	**Lecturer(s)**	**Year of Study**
1st Cycle	Dr Menelaos Apostolou	2nd
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:

1. Descriptive Statistics
2. t-tests
3. Correlation
4. Analysis of Variance (ANOVA)
5. Mann-Whitney-U
6. Wilcoxon Signed Rank Test
7. Regression

Learning Activities and Teaching Methods:

Interactive Lectures, Lab Presentations, Project, Lab Tutorials, Practical Exercises

Assessment Methods:

Project, Mid-Term Exam, Final Exam.

Required Textbooks / Readings:

Davis, D. F., & Smith, R. A. (2020). *An introduction to statistics and research methods: Becoming a psychological detective*. Pearson.

Recommended Textbooks / Readings:

Pallant, J. (2020). *SPSS survival manual* (7th ed.). Open University Press.