



UNIVERSITY OF NICOSIA ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

University of Nicosia, Cyprus

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| Course Code PSY-351 | Course Title Statistics in Psychology | ECTS Credits 6 |
| Department Social Sciences | Semester Spring | Prerequisites PSY 310 |
| Type of Course Required | Field Psychology | Language of Instruction English |
| Level of Course 1 st Cycle | Year of Study 3 rd | Lecturer(s) Dr Menelaos Apostolou |
| Mode of Delivery face-to-face | Work Placement N/A | Co-requisites None |

Objectives of the Course:

This course is designed 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:

Upon completion of this course students are expected to acquire the basic statistical skills for the analysis of data obtained in psychological research. 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. Test hypotheses using the appropriate statistical analyses (parametric and non-parametric)
9. Expand on the use the SPSS computer programs for the statistical analyses of the

data produced.

10. Be able to write a research report in APA style.

Course Contents:

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

Learning Activities and Teaching Methods:

Lectures, Lab Presentations, Lab Tutorials, Practical Exercises

Assessment Methods:

Practical Portfolio, Project, Mid-Term Exam, Final Exam.

Required Textbooks/Reading:

| Authors | Title | Publisher | Year | ISBN |
|---------------------------|---|---------------------------------|------|---------------|
| Graziano, A. Raulin M, | Research Methods: A Process of Inquiry | Allyn & Bacon McGraw Hill | 2007 | 0-205-52557-1 |

Recommended Textbooks/Reading:

| Authors | Title | Publisher | Year | ISBN |
|--|---|--|------|------|
| Pallant, J. | SPSS Survival Manual. | Open University Press. | 2008 | |
| American Psychological Association | Publication Manual of the American Psychological Association(4 th Edition) | American Psychological Association | 2007 | |