

COURSE INFORMATION FORM	
Faculty / Institute	Faculty of Science and Literature
Department	Psychology
Course Code	PSI 203
Course title	Statistics for Psychology I
Instructional Language	English
Programs that can take the course	Psychology
Course Type	Must
Course Level	Undergraduate
ECTS Credit	7
Prerequisites	-
Course Content	Basic concepts of probability and statistics, measures of central tendency and variability, some common distributions (i.e., normal, binomial, multinomial), hypothesis testing, power, and effect size as well as the basic statistical analysis techniques of chi-square, correlation, and simple linear regression will be covered. In addition to data entry and screening, these techniques will be performed using two statistical software of Statistical Package for the Social Sciences (SPSS) and Jeffreys' Amazing Statistics Program (JASP). APA format for each technique will be covered.
The Aim of the Course	This course aims to provide students an introductory overview to the basic statistical concepts and procedures used in psychological research. Students will be trained about how to report results in APA format for each technique.
Course Outcomes	Students will (1) recognize and understand basic statistical concepts and processes, (2) analyze the strength and weaknesses of different measurement tools and statistical methods.
Textbook and / or References	Howell, D. C. (2013). <i>Statistical methods for psychology</i> (8th ed.). Wadsworth Cengage Learning. Heiman, G. W. (2011). <i>Basic statistics for the behavioral sciences</i> (6th ed.). Wadsworth Cengage Learning.

Evaluation Criteria	Percentage
Attendance	10% (Class Participation)
Lab	10%
Application	-

Field Study	-
Homework	20%
Presentations	-
Projects	-
Seminar	-
Midterm Exams	25%
Quiz	-
Final	35%
Total	100%

Course Plan	Subjects to Be Discussed
1. Week	Introduction to the course and syllabus + Probability
2. Week	Permutations and combinations + Bayes' theorem
3. Week	Basic concepts of statistics LAB session: Introduction and data entry to SPSS and JASP
4. Week	Measures of central tendency + Measures of variability
5. Week	Review of the first five weeks LAB session: Describing and exploring data using SPSS and JASP and reporting results in APA format
6. Week	Some common distributions: normal, binomial, multinomial -Midterm Exam-
7. Week	z scores LAB session: Assessing whether data are normally distributed and detecting univariate outliers through z scores using SPSS
8. Week	Theory of and errors in hypothesis testing + Power and effect size
9. Week	Categorical data and chi-square LAB session: Chi-square tests using SPSS and JASP and reporting results in APA format
10. Week	Correlation LAB session: Correlation analysis using SPSS and JASP and reporting results in APA format
11. Week	Simple linear regression LAB session: Simple linear regression analysis using SPSS and JASP and reporting results in APA format
12. Week	Review of the last five weeks