

Course title	Statistics in Psychology I				
Course code	PSY1105				
Course type	Compulsory				
Level	Undergraduate				
Year / Semester	Year 1 / Semester 2				
Teacher's name	New hire 1				
ECTS	7.5	Lectures / week	1	Laboratories / week	0
Course purpose and objectives	<p>The purpose of this course is to give students a thorough understanding of the essential statistical ideas and methods required for carrying out rigorous research in the field of psychology. Students who complete this course will have the knowledge and abilities needed to efficiently analyze, interpret, and come to reliable conclusions from psychological data. Students will be better equipped to evaluate existing research critically, create their own experiments, and expand our understanding of psychology by mastering these statistical methods.</p>				
Learning outcomes	<p>The following learning outcomes are expected, where students will:</p> <ol style="list-style-type: none"> 1. Exhibit a firm grasp of the basic statistical principles and vocabulary that apply to psychology. 2. Use descriptive statistics to analyze and interpret psychological data. 3. Describe the fundamental ideas behind sampling and probability theory and their application in psychology. 4. Conduct statistical studies using statistical software and interpret results in the context of psychological research questions. 5. Communicate statistical findings effectively to both technical and non-technical audiences. 				
Prerequisites	None	Required	Yes		
Course content	<p>Students should acquire a thorough understanding of the essential statistical ideas and methods required for carrying out rigorous research in the field of psychology. Students who complete this course will have the knowledge and abilities needed to efficiently analyze, interpret, and come to reliable conclusions from psychological data. Students will be better equipped to evaluate existing research critically, create their own experiments, and expand our understanding of psychology by mastering these statistical methods.</p>				

	<p>Week 1: Introduction to Statistics in Psychology</p> <p>Week 2: Descriptive Statistics</p> <p>Week 3: Data Visualization</p> <p>Week 4: Probability and Sampling Distributions</p> <p>Week 5: Introduction to Inferential Statistics</p> <p>Week 6: Confidence Intervals</p> <p>Week 7: Parametric Tests</p> <p>Week 8: Nonparametric Tests</p> <p>Week 9: Correlation and Regression</p> <p>Week 10: Ethical Considerations in Statistical Analysis</p> <p>Week 11: Practical Data Analysis with Statistical Software</p> <p>Week 12: Critical Evaluation of Research Studies</p> <p>Week 13: Application of Statistical Techniques</p> <p>Week 14: Communicating Statistical Results</p>
Teaching methodology	Lecture and labs
Bibliography	Field, A. (2018). <i>Discovering Statistics Using IBM SPSS Statistics</i> . Sage Publications.
Assessment	<ol style="list-style-type: none"> 1. Midterm & Final Exam (30% & 30%): Mid-term and final exams will be conducted covering the entire course. Both exams will include multiple-choice, short-answer, and essay questions. 2. Group assignment (25%), where students will work together to analyse a provided dataset and present their findings. 3. Individual in-class assignment (5%), where students will be asked to perform specific analyses using statistical software. 4. Presence and Participation (10%): Students should be present and actively participate in in-class discussions.
Language	Greek