

Course title	Quantitative Research Methods				
Course code	PSY1104				
Course type	Compulsory				
Level	Undergraduate				
Year / Semester	Year 1 / Semester 1				
Teacher's name	New hire 1				
ECTS	7.5	Lectures / week	1	Laboratories / week	1
Course purpose and objectives	The purpose of this course is to introduce students to the basic concepts and practices of quantitative research in psychology. This foundational course aims to familiarize students with the principles of quantitative research design, basic data collection methods, and introductory data analysis techniques. Students will learn how to approach psychological research questions systematically and ethically.				
Learning outcomes	<p>Students are expected to:</p> <ol style="list-style-type: none"> 1. Understand the fundamental concepts and principles of quantitative research methods. 2. Develop basic skills in designing quantitative research studies. 3. Learn introductory techniques for collecting and organizing quantitative data. 4. Analyze basic quantitative data and interpret results. 5. Recognize and uphold ethical standards in conducting quantitative research. 				
Prerequisites	None	Required	Yes		
Course content	<p>Week 1: Introduction to Quantitative Research in Psychology Week 2: Basic Research Design and Hypothesis Formation Week 3: Introduction to Sampling Methods Week 4: Basic Data Collection Techniques (Surveys, Questionnaires) Week 5: Introduction to Measurement and Psychometrics Week 6: Fundamentals of Descriptive Statistics Week 7: Introduction to Ethical Issues in Quantitative Research Week 8: Analyzing Data: Mean, Median, Mode Week 9: Introduction to Data Visualization Week 10: Reporting Quantitative Research Findings Week 11: Basic Research Project Planning Week 12: Review and Practical Application: Mini Quantitative Research Project</p>				

Teaching methodology	Lecture
Bibliography	<p>Gravetter, F. J., & Forzano, L. B. (2018). <i>Research Methods for the Behavioral Sciences</i> (6th ed.). Cengage Learning.</p> <p>Selected introductory research papers and case studies provided by the instructor.</p>
Assessment	<ol style="list-style-type: none"> 1. Midterm & Final Exam (30% & 30%): Both exams will cover the entire course and include multiple-choice, short-answer, and essay questions. 2. Group assignment (25%): Students will collaboratively design and execute a basic quantitative research study, including data collection and preliminary analysis, and present their findings. This will be delivered in both paper format and a brief presentation. 3. Individual assignment (5%): Students will critically analyze a simple published quantitative research study. 4. Presence and Participation (10%): Active participation in class discussions is required.
Language	Greek