

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	SOCIAL SCIENCES		
<b>DEPARTMENT</b>	PSYCHOLOGY		
<b>LEVEL</b>	Undergraduate		
<b>COURSE CODE</b>	ΨX-1101	<b>SEMESTER</b>	
<b>COURSE TITLE</b>	Research Methods in Social Sciences		
<b>TEACHING ACTIVITIES</b>	<b>WEEKLY HOURS</b>	<b>ECTS</b>	
Instructor lectures, case study presentations, Group exercises.	<b>3</b>	<b>6</b>	
<b>COURSE TYPE</b>	Compulsory /Foundation module		
<b>PREREQUISITES COURSES:</b>	No		
<b>INSTRUCTION/EXAM LANGUAGE:</b>	Greek		
<b>OFFERED TO ERASMUS STUDENTS</b>	No		
<b>COURSE WEB PAGE (URL)</b>	<a href="https://elearn.uoc.gr/course/view.php?id=5397">https://elearn.uoc.gr/course/view.php?id=5397</a>		

### 1. LEARNING OUTCOMES

Learning Outcomes
<p>The aim of the course is to introduce students to research methods in psychology. Upon successful completion of the course, students are expected to:</p> <ul style="list-style-type: none"> <li>• Be familiar with the basic principles of research methodology in psychology.</li> <li>• Have a solid understanding and be able to evaluate different research designs and approaches in psychology</li> <li>• Be aware of the relevant technical terminology used in psychological research.</li> <li>• Recognize the importance of empirical research for the fields of psychology as well as for society more broadly.</li> <li>• Have developed critical thinking regarding the application of empirical and theoretical principles of research methodology.</li> </ul>

## General Competences

Search, analysis, and synthesis of data and information. Decision-making. Independent work

Respect for diversity and multiculturalism. Promotion of free, creative, and inductive thinking

## 2. COURSE CONTENT

*The course's content is linked to the 5 main axes of the curriculum:*

*Scientific Foundations [1], Scientific Research and Critical Thinking [2], Ethical and Social Responsibility [3], Communication Ability [4], Basic Preparation for Career Decisions and Vocational Rehabilitation [5].*

**Week 1:** Introduction to Scientific Research [1], [2], [3], [4]

Goals of scientific research. Formulation and testing of theories. Research design

**Week 2:** Overview of Basic Principles [1], [2], [3], [4]

Identification of bias. Necessity of blind experiments. Observation and control. Experimental and non-experimental methods. Operational definition

**Week 3:** Variables and Measurement Scales [1], [2], [3], [5]

Definitions, types, and levels. Graphs. Measurement scales. Extraneous variables

**Week 4:** Basic Concepts of Probability [1], [2], [3], [4]

Deterministic and random experiments. Sample space and events. Theoretical and relative frequency. Probability calculation

**Week 5:** Research Hypothesis / 5a Sampling [1], [2], [3]

Formulation of hypotheses. Types of sampling

**Week 6:** Causality [1], [2], [3], [4]

Basic principles and rules for establishing causal relationships

**Week 7:** Basic Concepts of Statistics [1], [2], [3]

Measures of central tendency, dispersion, and skewness

**Week 8:** Experimental Method [1], [2], [3], [4], [5]

Simple and complex experiments. Laboratory and field experiments

**Week 9:** Design and Conduct of Experiments [1], [2], [3], [4]

Operational definitions of independent and dependent variables. Experimental manipulation and measurement of variables. Types of experimental design

**Week 10:** Factorial Designs and Interaction [1], [2], [3]  
Definitions and types. Graphical representations

**Week 11:** Principles of Psychometrics. Validity and Reliability [1], [2], [3]  
Classical test theory. Types of validity and reliability

**Week 12:** Questionnaires and Observation [1], [2], [3], [4], [5]  
Methodology of questionnaire research, interviews, and observation

**Week 13:** Research Ethics [1], [2], [3], [4], [5]

### 3. INSTRUCTIONAL and LEARNING METHODS - EVALUATION

<b>INSTRUCTION METHOD</b>			
<b>INFORMATION AND COMMUNICATION TECHNOLOGIES USED</b>			
<b>TEACHING ORGANIZATION</b>	<i>Activity</i>	<i>Semester workload (hours)</i>	<i>ECTS</i>
	Lectures	39	1.56
	Guided study	40	1.60
	Independent study/ Final exam preparation	65	2.60
	Final exams	2	0.08
	<b>Total (25 hours of workload per credit unit)</b>	<b>146</b>	<b>6</b>
<b>STUDENT EVALUATION</b>	Assessment is conducted in Greek. The written final examination includes 20 multiple-choice and short-answer questions covering the entire syllabus.		

#### 4. BIBLIOGRAPHY

- *Adler, E., & Clark, R. (2018). Κοινωνική Έρευνα, Μια ξενάγηση στις Μεθόδους και στις Τεχνικές (επιμ.: Τσίρμπας, Γ.). Εκδόσεις Τζιόλα.*
- *Christensen, L. B., Johnson B., & Turner L. (2023). Η πειραματική μέθοδος στην επιστημονική έρευνα. Παπαζήση.*
- *Σίμος, Π., & Κομίλη, Α. (2003). Μέθοδοι έρευνας στην Ψυχολογία και τη γνωστική νευροεπιστήμη. Εκδόσεις Παπαζήση*
- *Sarris, V., & Reiss, S. (2009). Μεθοδολογία έρευνας & Πειραματική Ψυχολογία, (επιμ.: Παπαδόπουλος Ν.Γ.). Σύγχρονη Εκδοτική ΕΠΕ*
- *Sani, F., & Todman, J. (2009). Πειραματικός Σχεδιασμός και Στατιστικές Εφαρμογές στην Ψυχολογία. ΠΕΔΙΟ Α.Ε.*
- *Shaughnessy, J., Zechmeister, E., & Zechmeister, J. (2018). Ερευνητικές μέθοδοι στη ψυχολογία (επιμ.: Ζιώρη Ε.). Gutenberg.*