COURSE OUTLINE

1. GENERAL

SCHOOL	SOCIAL SCIENCES		
DEPARTMENT	PSYCHOLOGY		
LEVEL	UNDERGRADUATE		
COURSE CODE:	**ΨΧ-3313**	**SEMESTER**	6th
COURSE TITLE:	**Neuropsychological assessment II: Research applications**		

ΑΥΤΟΤΕΛΕΙΣ ΔΙΔΑΚΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ	**WEEKLY HOURS**	**ECTS**
Lectures, Training in (a) administration and scoring of neuropsychological tasks and selected scales, (b) research processes in neuropsychology, (c) writing a research protocol and (d) writing an abstract for a conference presentation.	3	6

COURSE TYPE:	Skills Development (Laboratory)
PREREQUISITES COURSES::	Research Methods in Social Sciences I, Statistics I
INSTRUCTION/EXAM LANGUAGE:	Greek
OFFERED TO ERASMUS STUDENTS	NO
COURSE WEB PAGE (URL)	https://elearn.uoc.gr/course/view.php?id=6740 (password required)

2. LEARNING OUTCOMES

Learning Outcomes

The course is an introduction in neuropsychological assessment for research purposes and aims to introduce students to (a) the administration and scoring of widely administered neuropsychological tasks and selected scales, (b) designing and conducting original small-scale experimental research and (c) writing an abstract for a conference presentation. The course is based on (a) the basic principles of neuropsychological assessment for research purposes, part of which is taught in Neuropsychology (compulsory course) and (b) the application of knowledge acquired during the compulsory courses entitled Research Methods in Social Sciences I and Statistics I, thus allowing students to further delve into acquired knowledge and the applications.

Upon successful completion of the course, students are expected to have:

- Been trained in the administration and scoring of selected neuropsychological tasks
- Been trained in the selection, retrieval and review of published literature
- Been trained in designing and conducting a small-scale research project examining healthy participants and administering selected neuropsychological tasks
- Been trained in writing an abstract for a (hypothetical) conference presentation
- Considered the ethical aspects and the applications of research in neuropsychology

General Competences
• Search for, analysis and synthesis of data and information, with the use of the necessary technology. • Team-work. • Working independently. • Project planning and management • Working in an inter-disciplinary environment. • Respect for diversity and multiculturalism. • Social, professional and ethical sensitivity and responsibility for gender related issues. • Criticism and self-criticism • Decision making. • Production of free, creative and inductive thinking.

3. 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].

1st Week: Introduction in the course, formulation of students' working groups [1, 2, 3, 5]

2nd Week: Literature search, defining research and review papers [1, 2, 3]

3rd Week: Basic principles of quantitative research methodology [1, 2, 3]

4th – 5th Week: Training in the administration and scoring of Digit span forward, Digit span backward, Key search, Letter-number sequencing, Mazes, Similarities, Stroop test, Verbal & category fluency test, Vocabulary, Reading the Mind in the Eyes test & Formulation of research projects [1, 2]

6th Week: Training in the administration and scoring of Autism Spectrum Quotient, Schizotypal Personality Questionnaire, Behavioral Inhibition/Behavioral Activation scale, Mental well-being & Finalizing research projects [1, 2]

7th Week: Writing research protocols – example for students' project & Initiation of data collection [1, 2, 3]

8th – 10th Week: Answering questions and resolving problems arising during data collection & Submission of research protocols (week 8) [1, 2, 3]

11th Week: Formulation of statistical analyses plans & Writing an abstract – example of students' project [1, 2, 3, 4]

12th Week: Answering questions and resolving problems arising statistical analyses & Writing an abstract – example of students' project [1, 2, 3, 4]

13th Week: Feedback, answering questions about the course and the course-assessment abstract (submission during the exams period) [2, 3, 4, 5]

4. INSTRUCTIONAL and LEARNING METHODS - EVALUATION

INSTRUCTION METHOD.	In class (face-to-face).

<table>
<tr><td>INFORMATION AND COMMUNICATION TECHNOLOGIES USED</td><td>Use of ICT in teaching and communication with students.
Support for learning via the UoC e-learn online platform (e-learn)</td></tr>
<tr><td>TEACHING ORGANIZATION</td><td>
<table>
<tr><th>Activity</th><th>Semester workload (hours)</th><th>ECTS</th></tr>
<tr><td>Lectures</td><td>39</td><td>1,56</td></tr>
<tr><td>Independent study</td><td>10</td><td>0,40</td></tr>
<tr><td>Study in groups / Students' collaboration</td><td>41</td><td>1,64</td></tr>
<tr><td>Writing of research protocol</td><td>20</td><td>0,80</td></tr>
<tr><td>Literature review and writing of abstract</td><td>40</td><td>1,60</td></tr>
<tr><td>Total</td><td>150</td><td>6.00</td></tr>
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<tr><td>STUDENT EVALUATION</td><td>-Writing the abstract (50%).
-Writing the research protocol (30%).
-Active participation in the weekly discussions during the lectures (20%).

The language of assessment is Greek.

The evaluation criteria are presented during the first lecture. All criteria are available to students via the web-site of the course in the UoC e-learn platform.</td></tr>
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5. BIBLIOGRAPHY

Lezak, M.D., Howieson, D.B., & Loring, D.W. (2012). Νευροψυχολογική εκτίμηση, Επιμέλεια Ελληνικής έκδοσης: Λ. Μεσσήνης, Μ. Κοσμίδου, & Π. Παπαθανασόπουλος, εκδόσεις Gotsis.

Passer, M.W. (2025). Μέθοδοι έρευνας: Έννοιες και συνδέσεις, Επιμέλεια Ελληνικής έκδοσης: Α. Βάσιου, Γ. Δημάκος, Κ. Καφέτσιος, Μ. Λιναρδάκης, Π. Μεταλλίδου & Η. Τσακανίκος, εκδόσεις Gutenberg.

Ρούσσος, Π. & Τσαούσης, Γ. (2022). Στατιστική εφαρμοσμένη στις κοινωνικές επιστήμες με τη χρήση του SPSS και του R, εκδόσεις Gutenberg.

Mondini, S., Cappelletti, M., & Arcara G. (2022). Methodology in Neuropsychological Assessment. Routledge.

Sherman, E., Tan, J., & Hrabok, M. (2021). A Compendium of Neuropsychological Tests: Fundamentals of Neuropsychological Assessment and Test Reviews for Clinical Practice. Oxford University Press.

Selected papers published in:
Neuropsychology Review
Neuropsychology
Journal of Neuropsychology
Journal of the International Neuropsychological Society
Archives of Clinical Neuropsychology