COURSE OUTLINE (Neuropsychology)

1. GENERAL

SCHOOL	SOCIAL SCIENCES		
DEPARTMENT	PSYCHOLOGY		
LEVEL	UNDERGRADUATE		
COURSE CODE:	**ΨΧ-3302**	**SEMESTER**	6th
COURSE TITLE:	**Neuropsychology**		

ΑΥΤΟΤΕΛΕΙΣ ΔΙΔΑΚΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ	**WEEKLY HOURS**	**ECTS**
Lectures, demonstration of neuropsychological tasks' administration, presentation/discussion of case studies	3	5

COURSE TYPE:	Specialized general knowledge (Compulsory)
PREREQUISITES COURSES::	Biological bases of behavior I
INSTRUCTION/EXAM LANGUAGE:	Greek
OFFERED TO ERASMUS STUDENTS	NO
COURSE WEB PAGE (URL)	https://elearn.uoc.gr/course/view.php?id=76 (password required)

2. LEARNING OUTCOMES

Learning Outcomes

The course is a comprehensive introduction in the field of Neuropsychology, aiming to acquaint students with the structural and functional organization of the Central Nervous System (CNS) and to provide an overview of syndromes/behaviours/symptoms following CNS damage. Specific aims of the course include (a) Preliminary familiarizing of students with the profession of neuropsychologists as well as with its current ethical requirements, (b) Explaining to students the role of neuropsychologists as members of the scientific team undertaking patients care and (c) Introducing students to the methodological approaches applied in clinical practice and research in neuropsychology, focusing on the basic principles of neuropsychological assessment.

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

- Acquired a broad theoretical background on basic brain functions (e.g. memory, language, executive functions) and related theories.
- Understood the symptomatology produced after damage in different brain regions.
- Acquired basic competences for the formulation of preliminary diagnostic hypotheses.
- Learnt the most common methods for the assessment of higher cognitive functions in man.
- Delved into the role of neuropsychologists in patient care.

General Competences

- Search for, analysis and synthesis of data and information, with the use of the necessary

technology.

- Decision making.
- Working independently.
- Team-work.
- Working in an inter-disciplinary environment.
- Respect for diversity and multiculturalism.
- Social, professional and ethical sensitivity and responsibility for gender related issues.
- Production of free, creative and inductive thinking.
- Criticism and self-criticism

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 Neuropsychology [1, 2, 3, 4, 5]

2nd Week: Methodology of research and diagnosis in Neuropsychology [1, 2, 3, 5]

3rd Week: Frontal lobes: neuroanatomy, functions and symptomatology following frontal damage [1, 2, 3, 4, 5]

4th Week: Temporal and occipital lobes: neuroanatomy, functions and symptomatology following parietal or occipital damage [1, 2, 3, 4, 5]

5th Week: Parietal lobes: neuroanatomy, functions and symptomatology following parietal damage [1, 2, 3, 4, 5]

6th Week: Cerebral asymmetry [1, 2, 3, 4, 5]

7th Week: Disconnection syndromes [1, 2, 3, 4, 5]

8th Week: Language: neural substrate, component processes and disorders [1, 2, 3, 4, 5]

9th Week: Attention and consciousness: neural substrate, component processes and disorders [1, 2, 3, 4, 5]

10th Week: Memory: neural substrate, component processes and disorders [1, 2, 3, 4, 5]

11th Week: Basic features of major neurological disorders [1, 2, 3, 4, 5]

12th Week: Brain plasticity, rehabilitation and recovery of function [1, 2, 3, 4, 5]

13th Week: Neuropsychological assessment [1, 2, 3, 4, 5]

4. INSTRUCTIONAL and LEARNING METHODS - EVALUATION

INSTRUCTION METHOD.	In class (face-to-face). These meetings include lectures, demonstration of neuropsychological tasks' administration, presentation/discussion of case studies.
INFORMATION AND COMMUNICATION TECHNOLOGIES USED	Use of ICT in teaching Support for learning (communication with students and delivery of all course material) via the UoC e-learn online

<table>
<tr><td></td><td>platform (e-learn)</td></tr>
<tr><td>TEACHING ORGANIZATION</td><td>The organization of teaching depends on the option for evaluation that students will select (see Student evaluation).

<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>86,5</td><td>3,46</td></tr><tr><td>Final exam</td><td>1,5</td><td>0,06</td></tr><tr><td>Total</td><td>127</td><td>5,08</td></tr></table>
or

<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>85</td><td>3,40</td></tr><tr><td>Mid-term exam</td><td>1,5</td><td>0,06</td></tr><tr><td>Final exam</td><td>1,5</td><td>0,06</td></tr><tr><td>Total</td><td>127</td><td>5,08</td></tr></table></td></tr>
<tr><td>STUDENT EVALUATION</td><td>The evaluation criteria are presented during the 1st lecture of the semester. Moreover, all criteria are available to the students via the web-site of course on UoC e-learn platform.

The final grade for the course stems from:
Final written exam (100% of the final grade)
or
One mid-term and one final written exam (100% of the final grade – 50%/exam)

Both options for the evaluation of students are presented during the first lecture and students are required to select the one they prefer. All students are evaluated with the option selected by their majority.</td></tr>
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5. BIBLIOGRAPHY

- Kolb, B., & Whishaw, I. (2015). Fundamentals of Human Neuropsychology, 7th edition, Worth Publishers.
- Blumenfeld, H. (2021). Neuroanatomy through Clinical Cases, Third Edition, Sinauer Associates.
- Marcotte, T.D., Schmitter-Edgecombe, M., & Grant, I. (Eds) (2022). Neuropsychology of Everyday Functioning. Second Edition, Guilford Press.
- Parsons, M.W., & Braun, M.M (Eds) (2014). Clinical Neuropsychology: A Pocket Handbook for Assessment. Fourth Edition, American Psychological Association.
- Sherman, E.M.S., Tan, J.E.E., & Hrabok, M. (Eds.) (2021). A compendium of neuropsychological tests: Fundamentals of neuropsychological assessment and test reviews for clinical practice. Oxford University Press.

Selected papers published in Neuropsychology, Journal of Neuropsychology, Archives of Clinical Neuropsychology, Journal of the International Neuropsychological Society, Neuropsychologia, Neuroimage, Neuropsychology Review