COURSE OUTLINE

(1) GENERAL

SCHOOL			
ACADEMIC UNIT	**Interdisciplinary Graduate Programme in the BRAIN and MIND sciences**		
LEVEL OF STUDIES	7		
COURSE CODE	**B&M-R-101**	SEMESTER	**depending on availability**
COURSE TITLE	Neuropsychological Assessment		

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	WEEKLY TEACHING HOURS	CREDITS
Laboratory rotation	6	9-27
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Special background, skills development
PREREQUISITE COURSES:	B&M-107 Introduction to Psychology and Social Neurosciences
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	English
IS THE COURSE OFFERED TO ERASMUS STUDENTS	YES
COURSE WEBSITE (URL)	https://elearn.uoc.gr/course/view.php?id=4469

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

The Neuropsychology Clinic of the University General Hospital of Heraklion focuses on the application of modern psychometric methods for the assessment of cognitive abilities in patients of all ages with a variety of neurological and psychiatric disorders (neurodevelopmental, neurodegenerative, traumatic brain injuries, space-occupying lesions, and other acute brain damage). At the same time, it participates in research projects aimed at studying the effects of various types of brain pathology on behavior and cognitive functions, in collaboration with the MRI Unit of the University Hospital of Heraklion and other Clinical Departments (Psychiatry, Neurology, Rheumatology, Neurosurgery). Finally, it has developed and standardized in the Greek population a wide range of psychometric tools for measuring memory, language, executive, and emotional functions.

As part of the rotation, students actively participate in all activities of the Clinic. In particular, they have the opportunity to:

- Observe neuropsychological assessments across a wide range of disorders,
- Familiarize themselves with the rationale, principles, and particularities of the psychometric approach in patients with suspected brain injury or psychiatric disorder,
- Administer neuropsychological test batteries, initially under supervision and later independently; score and interpret the results of neuropsychological assessments; and prepare the corresponding reports,
- Participate in the processing and interpretation of data from ongoing clinical studies.

Upon completion of the laboratory internship, the student will be able to:

- Understand the basic principles of the psychometric approach to cognitive functions at both population and disorder-specific levels,
- Deepen their understanding of the relationship between specific brain pathologies and psychological manifestations (symptoms and signs), and understand potential variations in this relationship at the individual level,
- Acquire clinical skills for approaching patients with neurological or psychiatric conditions and their relatives/caregivers,
- Adapt the psychometric approach according to the patient's specific characteristics (sensorimotor deficits, motivation, level of alertness, age, cultural or ethnic background),
- Interpret assessment results in relation to the clinical question and prepare a neuropsychological report,
- Collaborate harmoniously with the Clinic team and healthcare professionals from other departments,
- Communicate clearly and accurately—both to specialist and non-specialist audiences—issues related to the effects of brain pathology or mental illness on behavior, within the framework of understanding diversity.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology
Adapting to new situations
Decision-making
Working independently
Team work
Working in an international environment
Working in an interdisciplinary environment
Production of new research ideas
Project planning and management
Respect for difference and multiculturalism
Respect for the natural environment
Showing social, professional and ethical responsibility and sensitivity to gender issues
Criticism and self-criticism
Production of free, creative and inductive thinking
……
Others…
…….

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Adapting to new situations
- Decision-making
- Working independently
- Team work
- Working in an international environment
- Working in an interdisciplinary environment

- Production of new research ideas
- Showing social, professional and ethical responsibility and sensitivity to gender issues
- Criticism and self-criticism
- Production of free, creative and inductive thinking

(3) SYLLABUS

- Training in the basic principles of psychometrics as applied to the assessment of cognitive abilities and functions
- Observation of neuropsychological assessments conducted by the instructor
- Administration of psychometric tests under supervision
- Independent administration of psychometric tests, scoring, and report writing
- Preparation of a final report

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face-to-face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	• Use of an electronic platform for administering and scoring psychometric tests • Use of algorithms to convert raw scores into standard scores
TEACHING METHODS *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.* *The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS*	

Activity	*Semester workload*
Review of the literature	35-105
Observation of neuropsychological assessments conducted by the instructor	35-105
Administration of psychometric tests under supervision	35-105
Independent administration and scoring of psychometric tests	100-300
Preparation of a final report	201-65
Course total	***225-675***

STUDENT PERFORMANCE EVALUATION *Description of the evaluation procedure* *Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*	Evaluation Language: English The student will be evaluated on their commitment to learning the methods, their autonomy and independence, their critical review and analysis of the literature, their progress over time, and the quality of their report. Evaluation criteria are outlined in the study guide and communicated to students at the beginning of the course.

(5) ATTACHED BIBLIOGRAPHY

- **Suggested bibliography:**

Lezak, M. D., Howieson, D. B., Loring, D. W., Hannay, H. J., & Fischer, J. S. (2004). *Neuropsychological assessment* (4th ed.). Oxford University Press.