UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Neuropsychological Semeiotic and Assessment

2425-1-F5108P002

Learning area

MODELS AND METHODS FOR ASSESSMENT OF PSYCHOLOGICAL FUNCTIONING

Learning objectives

The course aims to expand the content provided in the course of Neuropsychology from a clinical perspective, to allow the student to learn the theoretical principles and the necessary techniques to the diagnostic-clinical framework and prognosis of adult patients with neuropsychological disorders, also related to underlying neurological diseases.

Knowledge and understanding
· Neuropsychological semeiotics.
· Neuropsychological assessment: clinical examination and psychometric tests.
· The setting of the neuropsychological assessment for the neuropsychological syndromes and deficits.

Applying knowledge and understanding
· To promote the ability to understand and use clinical knowledge and data about patients, useful for clinical neuropsychology.
· To promote the ability to set up and perform a neuropsychological assessment.
. To promote the ability to make diagnostic hypotheses about neuropsychological deficits.

Contents

The neuropsychological semeiotics The neuropsychological methodology. Clinical neuropsychological examination

and psychometric neuropsychological tests; the neuropsychological assessment of neuropsychological deficits and syndromes caused by focal and diffuse brain lesions.

Detailed program

- Neuropsychological semeiotics
- Neuropsychological evaluation: clinical assessment.
- Psychometric neuropsychological tests.
- Disorders of oral language: aphasias.
- Acquired dyslexias and dysgraphias.
- Dyscalculia: number processing and calculation disorders (elements).
- Disorders of planning of voluntary movement: apraxias.
- Memory disturbances.
- Deficits of attention.
- Deficits of recognition and identification of objects, colours and faces: agnosias.
- Deficits of spatial cognition: unilateral spatial neglect and other spatial deficits.
- Deficits of awareness of disease: anosognosia.
- Disorders of consciousness (elements).
- Disorders of executive processes. Neuropsychology of head injury.
- Syndromes of interhemispheric disconnection.
- Dementias.
- Emotional disorders (elements),
- Neuropsychology of psychiatric disorders.

Prerequisites

It is assumed:

- basic knowledge of Genetics and Biology;
- knowledge of anatomy and physiology of the nervous system;
- knowledge of the neuro-functional organization of cognitive and emotional-motivational processes;
- knowledge of the neuropsychological scientific method.

Teaching methods

Classroom lessons in Italian with audio-visual material, classroom discussions, case presentations, group work.

Hours of teaching activity organized as frontal lessons: 60% of the total
Hours of teaching activities involving classroom discussions, presentation of cases, group work: 40% of the total

Assessment methods

Written assessment, that includes multiple-choice questions, and open questions on the topics of the course. An

example of the organization of the written assessment is the following:

a) 32 multiple choice 4-alternative questions, with 1 correct choice. One point is assigned for each correct answer, with no penalty. The minimum score for a successful assessment is 18 out of 32 correct answers. Example: “in Broca’s aphasia oral language is: 1: fluent; 2: telegraphic (correct choice); 3: abundant; 4: a jargon.An open question to be answered in an exhaustive and concise way on a clinical case. Example: “A 65-year-old patient is referred to you from the neurology department for a neuropsychological assessment. Etiology: left cerebral ischemia. Describe the first visit ”. A maximum of 32 points is assigned to the open question, based on the evaluation made by the professor. The final grade will be the weighted average of the written exam (2/3 the multiple-choice questions and 1/3 the open question).

P. N. Although this course is held in Italian, for Erasmus students, course material can also be available in English, and students can take the exam in English if they wish to do so..

Textbooks and Reading Materials

· Vallar G, Papagno C (a cura di) (2018). *Manuale di neuropsicologia. Clinica ed elementi di riabilitazione*. 3? edizione. Il Mulino, Bologna (selected parts).

· Mondini S, Mapelli D, Arcara G (2016). Semeiotica e diagnosi neuropsicologica. Metodologia per la valutazione. Carocci editore.

For consultation:
· Mondini S, Cappelletti M, Arcara G (2023). Methodology in Neuropsychological Assessment. Riutledge, Taylor & Francis Group: London and New York.

· Materials made available on the e-learning site.

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING