UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Neuropsychology of Adulthood and Aging - 1

2223-1-F5104P002-T1

Learning area

PSYCHOLOGICAL FUNCTIONING: MODELS AND MEHODS FOR ASSESSMENT

Learning objectives

Knowledge and understanding

· Elements of history of neuropsychology

· Methodological foundations of neuropsychology

· Basic elements of neurology and neuroimaging, useful in neuropsychology.

· Neuropsychological assessment: clinical exam and psychometric assessment.

· Main neuropsychological syndromes.

Applying knowledge and understanding

· To promote the ability to understand and use neurological 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

History and methods of neuropsychology; elements of neurology and neuroimaging; clinical neuropsychological exam and psychometric neuropsychological tests; main diseases responsible of neuropsychological disorders (elements); main neuropsychological syndromes brought about by focal and diffuse brain damage.

Detailed program

- History of neuropsychology.
- Methodological foundations of neuropsychology: simple and double dissociation between symptoms and signs; anatomical and functional neuropsychological syndromes.
- Neurology and neuroimaging: anatomoclinical correlations in neuropsychology.
- The main causes of neuropsychological deficits: cerebrovascular disorders, head trauma and dementias.
- Neuropsychological evaluation: clinical assessment.
- Psychometric neuropsychological tests.
- Disorders of oral language: aphasias.
- Dyscalculia: number processing and calculation disorders (elements).
- Disorders of planning of voluntary movement: the apraxias.
- Memory disturbances.
- Deficits of recognition and identification of objects, colours and faces: the agnosias.
- Deficits of spatial cognition: unilateral spatial neglect .
- Disorders of executive processes. Neuropsychology of head injury.

Prerequisites

It is strongly recommended that the student is familiar with the topics typically taught in the psychobiological and general psychology courses of the BA degreein psychology (for example, see the programs of the courses Anatomo-Physiological Foundations of Psychic Activity, Physiological Psychology; General Psychology I and II of the BA degree course called Psychological Sciences and Techniques of this University).

Teaching methods

Room lessons, audiovisual material.

Assessment methods

Erasmus students can contact the teacher to agree on the possibility of studying on a bibliography in English and / or the possibility of taking the exam in English

Written examination (30 multiple choice questionnaire) followed by an essay and if needed or requested by the student oral examination (optional).

A minimum score of 18/30 at the multiple choice questionnaire is needed to be further assessed and proceed with

the examination.

In the multiple choice questionnaire, each question has four alternative answers, only one being correct. One point is given for each correct answer; 0 points are given for errors or omissions.

In the short essay, the student will write on one of two possible subjects corresponding to one of the main themes covered during the course. For example:

1. Aphasias and the Wernicke-Lichteim model: heuristic power and limits of the model.
2. Principles of anatomical behavioral inference in neuropsychology: methods, advantages and limitations.

Textbooks and Reading Materials

- Denes GF e Pizzamigio L (Editors) Handbook Of Clinical And Experimental Neuropsychology. Psychology Press, 1998 ISBN 10: 086377542XISBN 13: 9780863775420

- Materials made available by the professor on the website www.eraldopaulesu.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION