



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Principles of Cognitive Rehabilitation

2627-3-I0201D145-I0201D172M

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#### Aims

- cerebral plasticity in cognitive rehabilitation - most common categories of cognitive deficits associated with motor disturbs - the motor rehabilitation in consciousness alteration - the attentive rehabilitation - recover modalities: restitution and substitution - the recover in presence of behavioral disturbs

#### Contents

rehabilitationof  
frontal syndrome  
the parietal syndrome  
amnesia  
the agnosies  
disturbances of the body schema

#### Detailed program

- Premises of cognitive rehabilitation of neuropsychological functions: Introduction to the course
- Physiological manipulations of the CNS (VNS, prisms, and other techniques)
- Methodological bases of cognitive rehabilitation
- Instrumental rehabilitation techniques (tDCS, TMS, Virtual Reality)
- Fundamentals of language rehabilitation
- Rehabilitation of disorders of spatial representation/perception/exploration
- Rehabilitation of body schema disorders
- Rehabilitation of traumatic brain injury

Role of emotions in rehabilitation/Rehabilitation of emotional disorders  
Acute phase stroke rehabilitation  
Relationship with caregivers of severely brain-injured patients  
Neuropsychological stimulation of elderly with cognitive decline  
Neuropsychological rehabilitation of memory disorders  
Neural plasticity

## **Prerequisites**

clinical neurology knowledge

## **Teaching form**

Lectures and interactive

## **Textbook and teaching resource**

- Processi cognitivi e personalità A cura di G. Pravettoni e M. Miglioretti, Franco Angeli, Mi, 2002 Psicologia dei processi cognitivi John G. Benjafield, Il Mulino, Bologna, 1999 Manuale di Neuropsicologia A cura di G. Denes e L. Pizzamiglio, Zanichelli, Bologna, 1990

- RIABILITAZIONE NEUROPSICOLOGICA - MAZZUCCHI ANNA - MASSON ITALIA

- Processi cognitivi e personalità A cura di G. Pravettoni e M. Miglioretti, Franco Angeli, Mi, 2002 Psicologia dei processi cognitivi John G. Benjafield, Il Mulino, Bologna, 1999 Manuale di Neuropsicologia A cura di G. Denes e L. Pizzamiglio, Zanichelli, Bologna, 1990

## **Semester**

1st semester

## **Assessment method**

Single-choice quiz and open-ended question or oral exam if requested by the student. The exam demonstrates integrative skills in recognizing cognitive issues and their interaction with bodily disorders.

## **Office hours**

By appointment

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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