



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Neuroscience 2

2122-5-H4102D032

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#### Aims

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To learn the principles of neurological localization through the application of semeiotics in the main CNS and PNS neurological and neurosurgical conditions.

To learn the principles of a correct treatment and rehab of mental disorders in the continuum of an integrated diagnostic and therapeutic approach.

To learn the principles of the correct management of neurological, neurosurgical and mental disorders.

To learn the following aspects of the main classes of drugs acting on the CNS: Cellular and molecular mechanisms of action-Therapeutic, side, and toxic effects-Pharmacokinetic properties-Drug-drug interactions-Pharmacogenetics determinants.

To learn emergency treatment and principles of neurointensive care in neurological and neurosurgical disorders and of acute care in psychiatric settings.

To learn principles of neurological and psychiatric rehabilitation.

#### Contents

Topographical anatomy and correlations with neuroradiology and neurological symptoms.

Nosology, epidemiology, aetiopathogenesis, diagnosis and therapy of the main neurological and neurosurgical disorders. Emergency and rehabilitation of neurological disorders.

Nosography, epidemiology, aetiopathogenesis, differential diagnosis and psychopathology of the main mental disorders. Acute care, integrated treatment and rehab of mental disorders

## **Detailed program**

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### **Prerequisites**

Basic knowledge of neuroanatomy, neurophysiology, biochemistry and pharmacology

### **Teaching form**

Frontal lessons with discussion of clinical cases through a problem based learning approach.

Lessons in attendance, subject to any ministerial changes following the COVID pandemic situation

### **Textbook and teaching resource**

see each teaching unit

### **Semester**

fourth year, second semester

### **Assessment method**

interim written exams for each didactic unit and final oral exam for Neurology,

in attendance, subject to any ministerial changes following the COVID pandemic situation

## **Office hours**

by e-mail appointment with professors

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