UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Neuroscience 2

2526-5-H4102D091

Aims

Organized in different modules, the course aims to provide the students with the basic information on

- the main categories of disorders of the nervous system, focusing mainly on the physio-pathological mechanisms and covering basic functional aspects of the central nervous system.
- drugs acting on the main diseases of the peripheral and central nervous system
- the nosology and clinical expression of the neurological diseases as well as the principles of the correct management of these specific neurological disorders
- symptoms, classification, treatments, and epidemiology of main mental disorders.
- the areas of application and effectiveness of the different psychological interventions

Relevant objectives encompass specific learning outcomes expected at the end of the course (Descrittori di Dublino).
Specifically, an improvement in the knowledge and understanding of the different issues on the physiopathological mechanisms and the basic functional aspects of the central nervous system; the drugs used in the treatment of the main diseases of the peripheral and central nervous system; the principles for the correct management of neurological disorders; features, classification, and epidemiology of the main mental disorders, is anticipated (knowledge and understanding; applying knowledge and understanding).
The course also aims to foster the development of soft skills in students, enabling a critical and informed use of basic information within mentioned topics (making judgements).
Similarly, another key objective is to promote effective communication within the relevant community (communication skills).
Consistently, the course seeks to equip students with the tools necessary to stay independently and continuously updated on issues relevant for the different modules of the course (learning skills).

Contents

This course provides a comprehensive overview on disorders of the nervous system and physio-pathological mechanisms; drugs acting on the main diseases of the peripheral and central nervous system; the nosology and clinical expression of the neurological diseases; neurosurgery: emergency; symptoms, classification, treatments, and epidemiology of main mental disorders.

Detailed program

see single modules' detailed program

Prerequisites

Teaching form

Teaching will be based on frontal lessons (didattica erogativa – DE).

Textbook and teaching resource

Refer to the materials indicated within each individual module, including:

- C. Ferrarese I. Appollonio et al. Core Curriculum “Malattie del sistema nervoso” Mc Graw-Hill 2nd ed. 2016
- Goodman and Gilman's The pharmacological basis of therapeutics, 13th ed. (2018) McGraw-Hill Education. Stahl's Essential Psychopharmacology, 7th ed. (2021) Cambridge Medicine.
- Shorter Oxford Textbook of Psychiatry (7 edn). Paul Harrison, Philip Cowen, Tom Burns, and Mina Fazel. Publisher: Oxford University Press Print Publication. Date: Oct 2017 Published online: Jan 2018. Print ISBN-13: 9780198747437. DOI: 10.1093/med/9780198747437.001.0001
- Selected chapters of "The Maudsley®. Prescribing Guidelines in Psychiatry".
- Slides delivered in the e-learning platform
- Selected chapters from recommended books

Semester

Year 5, Semester I

Assessment method

Oral exam assessing the student’s global learning

Office hours

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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION