



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Tecniche di Diagnostica per Immagini III

2627-2-I0303D035

Aims

Applying Knowledge and Understanding

By the end of the course, students will be able to use MRI equipment and set up imaging protocols for the examination of different anatomical regions according to diagnostic and research objectives. They will be able to process and reconstruct images using reformatting methods, volume rendering techniques, and map generation, and will have the fundamental knowledge required to recognize the imaging features of the main pathological conditions.

Making Judgements

Students will be able to independently assess the technical correctness of image acquisition and the adequacy of the images obtained, including those resulting from post-processing, for diagnostic and research purposes.

Communication Skills

By the end of the course, students will have acquired the ability to present the topics covered during the course clearly, using appropriate terminology and scientific rigor.

Learning Skills

By the end of the course, students will have acquired the tools necessary to continue learning and updating their knowledge independently, supported by a consistent reference to the etiopathogenetic processes discussed throughout the course.

Contents

The course aims to provide students with basic knowledge of physical principles, clinical indications, techniques, diagnostic protocols and applied aspects of magnetic resonance imaging

Detailed program

See individual modules

Prerequisites

Diagnostic Imaging Techniques I

Teaching form

Teaching takes place in attendance, with frontal and interactive lessons and practical exercises (see individual modules).

Textbook and teaching resource

TECNICHE DI TOMOGRAFIA COMPUTERIZZATA E DI RISONANZA MAGNETICA- Cei Luigi. Società Editrice Universo (2011).

RM ADDOMINALE. PARTE GENERALE- Stefano Colagrande e Pasquale Paolantonio. Poletto Editore (2014).

LEZIONI DI NEURORADIOLOGIA – Bozzao, Colonnese, Pantano; Società Editrice Esculapio, 2019

The teachers will provide other educational materials

Semester

Second semester

Assessment method

Monza

Written and oral exam, to evaluate preparation on the exam program, the ability to organize knowledge and the ability to properly use the technical language. The final evaluation will take into account the results obtained in both the written test and the oral test.

The written test will consist of:

- ? multiple choice questions and open questions on MRI and Ultrasonography equipment
- ? multiple choice questions and open questions on MR Image Training and Processing
- ? 2 open questions on Neuroradiological Semeiotics in MRI

The oral exam will cover the modules of Contrast Media, MRI Diagnostic Techniques and MRI Semeiotics.

Bergamo office

Written exam with multiple choice tests and open questions to evaluate the preparation on the exam program, the ability to organize knowledge and communication skills in the disciplinary field. Possible additional oral test upon request of the teachers or the student.

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION
