



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Tecniche di Diagnostica per Immagini II

2627-2-I0303D008

Aims

Knowledge and understanding

At the end of the course, students will have knowledge of the technological and methodological principles of Computed Tomography (CT) and angiography, including their main clinical indications, diagnostic protocols, and image acquisition and processing techniques. They will also understand radiological anatomy and the main normal and pathological findings in body and neuroradiological imaging.

Applying knowledge and understanding

Students will be able to apply the knowledge acquired to perform CT and angiographic diagnostic procedures, using appropriate protocols, acquisition parameters, and post-processing techniques. They will also be able to identify the main anatomical structures and the most common pathological findings.

Making judgements

Students will be able to assess the appropriateness of CT and angiographic procedures in relation to the clinical question, selecting suitable protocols and applying dose optimization principles. They will be able to distinguish between normal and pathological findings in diagnostic images.

Communication skills

Students will be able to use the technical and scientific terminology of diagnostic imaging correctly, describing procedures, protocols, anatomical findings, and major pathological conditions, and communicating effectively with members of the healthcare team.

Contents

The course aims to provide students with theoretical knowledge, techniques and practices of Computed Tomography and Angiography for the study of different organs and systems.

Detailed program

Refer to specific modules

Prerequisites

Diagnostic Imaging Techniques I

Teaching form

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

Textbook and teaching resource

"Tecniche di Tomografia Computerizzata e Risonanza Magnetica", Cei Luigi, Ed. Universo.

"Manuale di TC per TSRM" (a cura di R.Gilfieri, R.Trenti, A.G.Maccione) - Poletto Editore.

"Lezioni di neuroradiologia", Bozzao, Colonnese, Pantano; Ed: Società Editrice Esculapio, 2019.

Didactic material provided by teachers

Semester

First semester

Assessment method

Monza

Written and oral exam to evaluate preparation on the exam program, the ability to organize knowledge and 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:

? 3 open questions on Reconstruction and Processing of CT and Angiographic Images

? 2 open questions on Neuroradiological CT Semeiotics

The oral test will concern the CT and Angiography equipment, CT Diagnostic Techniques, Angiographic Techniques and Chest and Abdomen CT Semeiotics modules.

Bergamo

Written exam with closed-ended tests (multiple choice) 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
