

## SYLLABUS DEL CORSO

### Tecniche di Diagnostica per Immagini II

2223-2-I0303D008

---

#### Aims

The student will have to understand the main characteristics and technical basis of Computed Tomography and angiography and the principal clinical indications for body CT, neuro CT and angio CT. He/she will have to gain a solid radiological anatomy knowledge, skills about image acquisition, reconstruction, processing, visualization and storage procedures in diagnostic neuro, body and angio CT protocols. Lastly, he/she will have to gain skills about the definition of CT normality and pathology for organs and anatomical structures discussed during the course.

#### 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

- Main components and technical bases of Computed Tomography
- Main components and technical bases of angiography
- Image acquisition procedures
- Analytic and iterative reconstruction algorithms
- CT image quality and artifacts
- Main clinical indications to CT and angiographic exams
- Radiological anatomy
- Thorax and abdomen CT: introduction, indications, normal and pathologic findings
- Neuroradiological CT semeiotics: institutions of neuroradiological and semeiotic CT anatomy in main pathological areas

- Diagnostic protocols in CT and neuro-angiography
- Angiography: anatomy, pathology
- Introduction to interventional procedures

## **Prerequisites**

Diagnostic Imaging Techniques I

## **Teaching form**

Lessons

## **Textbook and teaching resource**

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

"Manuale di TC per TSRM" (a cura di R.Glilfieri, 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**

The exam consists of a written test for CT and Angiographic Equipment, CT Image Formation and Processing, Semeiotics CT Neuroradiology and Angiographic Techniques modules and of an oral test for the other modules. The final mark derives from the average of marks obtained in single tests.

## **Office hours**

By appointment required by mail

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

---