



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Seminari Radiologici

2122-3-I0303D020

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#### Aims

The student should know the physical principles, instruments, techniques, diagnostic protocols, the main clinical applications of: Conventional radiography, Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine, Radiotherapy.

#### Contents

Seminars study in deep topics treated during the three years in the field of Diagnostic Radiology, Nuclear Medicine and PET, Radiotherapy

#### Detailed program

Conventional radiology (X-ray production, projections, accuracy of x-ray images, radiographic anatomy), neuro and body CT (physical principles of Computed Tomography, diagnostic protocols, acquisition, processing and storage of CT images), neuro and body MRI (physical principles, coils, sequences, MRI image processing), CT angiography and MR angiography; Nuclear Medicine (SPECT), PET, radiopharmaceuticals; the Radiotherapy (instruments, treatment planning, dosimetry, linear accelerator), the Radiation Oncology, Radiation Protection of the patient and the operator

#### Prerequisites

## **Teaching form**

Seminars

## **Textbook and teaching resource**

Teacher will provide educational materials

## **Semester**

Second semester

## **Assessment method**

Attendance

## **Office hours**

By appointment required by mail

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