UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# COURSE SYLLABUS

## Bioengineering, Electronics and Informatics

**2021-1-I0201D132-I0201D198M**

### Aims

Provide the student with the basic knowledge on diagnostic imaging techniques, in terms of physical principles, instrumentation and image formation process.

### Contents

Image diagnostics instrumentation

### Detailed program

Physical principles, instrumentation and image formation in:

- Conventional Radiology
- Computed Tomography
- Echography
- Magnetic Resonance
- Scintigraphy and Single Photon Emission Computed Tomography

- Positron Emission Tomography

## Prerequisites

Physics basic knowledge

## Teaching form

Lectures

During the Covid-19 emergency period, the lessons will take place in a mixed mode: partial presence and asynchronous / synchronous video-recorded lectures

## Textbook and teaching resource

Slides presented during the course

## Semester

Second semester

## Assessment method

Written test made by two open questions

In the Covid-19 emergency period, written exams will be carried out on the ESAMI-ONLINE platform, with a proctoring system (RESPONDUS).

## Office hours

By appointment fixed by e-mail