



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Bioengineering, Electronics and Informatics

2021-1-I0201D132-I0201D198M

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#### 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

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