



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Bioingegneria Elettronica e Informatica B

1920-4-H4101D020-H4101D080M

---

#### Aims

Provide students 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

**Textbook and teaching resource**

Slides presented during the course

**Semester**

Second semester of the fourth year

**Assessment method**

4 multi-choice quiz on image diagnostics techniques, inside the whole course exam, and 1 oral question.

**Office hours**

By appointment fixed by e-mail

---