



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Bioingegneria Elettronica e Informatica

2223-1-I0101D003-I0101D012M

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#### Aims

The course aims to provide students with the main elements of diagnostic imaging and applications of the main radiologic and nuclear medicine imaging techniques

#### Contents

The course aims to provide students with the core subjects related to physics of radiation, radiologic and CT imaging techniques, conventional nuclear medicine and SPET and PET, Magnetic resonance and ultrasound imaging.

#### Detailed program

Overview of radiation physics. X-ray conventional radiology. X-ray Computed Tomography (CT). Conventional nuclear medicine. Single Photon Positron Emission Tomography (SPECT). Positron Emission Tomography (PET). Magnetic Resonance. Ultrasound.

#### Prerequisites

None

## **Teaching form**

Lessons in attendance, subject to any ministerial changes following the COVID pandemic situation

## **Textbook and teaching resource**

Slides from lessons

Suggested textbook: Francesco Giovagnorio. Manuale di diagnostica per immagini nella pratica medica. Soc. Ed. Esculapio.

## **Semester**

First year - First semester

## **Assessment method**

Multiple choice questions, of which only one is correct, integrated in the Igiene, Medicina del Lavoro e Statistica MedicaHygiene, Labor Medicine and Medical Statistics exam aimed at verifying the knowledge on the topics of the module's program.

## **Office hours**

On appointment by e-mail

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY

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