

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

# **SYLLABUS DEL CORSO**

# **Imaging Medico**

2223-113R-10

#### **Title**

Medical imaging

## Teacher(s)

Prof. Marco Paganoni, Dr. Marco Pizzichemi, Prof. Laura Sironi, Dr. Luca Presotto

#### Language

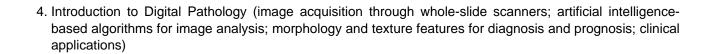
**English** 

# **Short description**

The aim of the course is to present the status of the art of advanced Medical Imaging methodologies, both from hardware and software points of view.

The main subjects of lectures will be:

- 1. Introduction to PET, CT and Multimodal Imaging
- 2. Introduction to image reconstruction techniques applied to tomographic imaging to minimize noise (bayesian and non-bayesian statistical priors, convolutional neural networks)
- 3. Use of Artificial Intelligence for disease detection, classification and prognosis



#### **CFU / Hours**

2 CFU/ 16 hours

# **Teaching period**

II semester (April-May)

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY | DECENT WORK AND ECONOMIC GROWTH | INDUSTRY, INNOVATION AND INFRASTRUCTURE | REDUCED INEQUALITIES | SUSTAINABLE CITIES AND COMMUNITIES