

# UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

# **COURSE SYLLABUS**

# **Digital Systems and Quality Controls**

2021-1-I0303D006-I0303D021M

### **Aims**

The course aims to provide students with knowledge of main digital radiological equipment, and Quality Controls

#### **Contents**

The student will learn main components of digital radiological equipment, physical and technological basis of diagnostic radiology; quality controls in diagnostic Imaging

## **Detailed program**

Differences between intensifying screen and shields for photostimulable luminescence. Photostimulable phosphors used in digital radiography.

Computed radiography. Analogicical-digital conversion, the pixel and voxel, direct digital systems

# **Prerequisites**

Organs and Functions

# **Teaching form**

# Textbook and teaching resource

F.MAZZUCATO: "Anatomia Radiologica. Tecniche e Metodologie in Radiodiagnostica" Ed.Piccin

Teachers will provide other educational material.

#### Semester

Second semester

### Assessment method

Written test about the modules **Conventional Equipments and Analogic Systems** and **Digital Systems and Quality Controls** comprising multiple choice questions and exercises. The written test is evaluated with a mark ranging from 0 to 30. If the mark is superior to 18/30, the oral test will follow. The oral test consists in the evaluation of the knowledge acquired among the course topics through open questions.

Modules:

Conventional Equipments and Analogic Systems and Digital Systems and Quality Controls

#### Written test:

7 open questions

4 questions with only one correct answer among 4

2 exercises

Oral discussion possibly related to the mistakes made during the written test.

#### Office hours

By appointment required by mail