



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Digital Systems and Quality Controls

2021-1-I0303D006-I0303D021M

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#### 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. Analogical-digital conversion, the pixel and voxel, direct digital systems

#### Prerequisites

Organs and Functions

#### Teaching form

Lectures, exercises

## **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

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