# COURSE SYLLABUS

# Digital Systems and Quality Controls

**2223-1-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. Analogicical-digital conversion, the pixel and voxel, direct digital systems

Quality Controls of radiological equipment and diagnostic imaging.

## Prerequisites

Organs and Functions

## Teaching form

Lectures, exercises

## Textbook and teaching resource

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

R.PASSARIELLO "Radiologia, Elementi di Tecnologia". Idelson Gnocchi

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:**
Open questions, quiz, exercises
Oral discussion related to the mistakes made during the written test.

## Office hours

By appointment required by mail

## Sustainable Development Goals

GOOD HEALTH AND WELL-BEING