

COURSE SYLLABUS

Bioengineering, Electronics and Informatics

2021-1-I0201D132-I0201D198M

Aims

Provide the student with the basic knowledge on diagnostic imaging techniques, in terms of physical principles, instrumentation and image formation process.

Contents

Image diagnostics instrumentation

Detailed program

Physical principles, instrumentation and image formation in:

- Conventional Radiology
- Computed Tomography
- Echography
- Magnetic Resonance
- Scintigraphy and Single Photon Emission Computed Tomography

- Positron Emission Tomography

Prerequisites

Physics basic knowledge

Teaching form

Lectures

During the Covid-19 emergency period, the lessons will take place in a mixed mode: partial presence and asynchronous / synchronous video-recorded lectures

Textbook and teaching resource

Slides presented during the course

Semester

Second semester

Assessment method

Written test made by two open questions

In the Covid-19 emergency period, written exams will be carried out on the ESAMI-ONLINE platform, with a proctoring system (RESPONDUS).

Office hours

By appointment fixed by e-mail
