68407 - Radiology and nuclear medicine research

Información del Plan Docente

Academic Year	2017/18
Faculty / School	104 - Facultad de Medicina
Degree	353 - Master's in Introduction to Medical Research 530 - Master's in Introduction to Medical Research
ECTS	5.0
Year	---
Semester	Indeterminate
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. It favors the learning of the principles of research in radiology and nuclear medicine. After the initial face-to-face session, where the the methodological principles of the course are presented, the following sessions will be online. This means the teachers will propose questions and solve students' doubts in a virtual way. At the end of this course, students should be able to establish an analysis of the legal rules applied to the use of ionizing radiations.

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5.2.Learning tasks

The course includes the following learning tasks:

- An initial face-to-face session.
- Online work: documents to be reviewd by the students.
- Online discussion and dialogue will be encouraged among the students and the professor.

5.3.Syllabus

The course will address the following topics:

1. Justification of medical exposure
2. Quality criteria in Diagnostic Radiology
3. Quality criteria in Nuclear Medicine
4. Quality criteria in Radiotherapy
5. Regulation of health radioprotection
6. Regulation on nuclear and radioactive facilities
7. Regulation on installation and use of devices RX with purposes of medical diagnosis
8. Operating specifications of radioactive facilities
9. Radiation protection in biomedical research
10. Radiopharmaceuticals research
11. Exposure to ionizing radiation in particular situations
12. Pregnancy and ionizing radiations

5.4.Course planning and calendar

Timetable

- This module will be held in the second half of the Master's degree.
- Mondays between January the 10h and February the 28th, from 16 to 20 hours, on the virtual platform Moodle. It contains the study materials, areas of participation where students will send their assignments, and where these will be discussed.

Assessment

- Examination will be held on February, the 28th and September, the 12th, 2018 at 16.30 hours.

5.5.Bibliography and recommended resources

Legal rules that are applied to the use of ionizing radiation (document that will be located in

the teaching digital ring).

All the references will be in the Library of the Center and will be located in the web.