67224 - Seminars R + D + I

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	527 - Master's in Electronic Engineering
ECTS	6.0
Year	1
Semester	Annual
Subject Type	Compulsory
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 is based on participation and the active role of the student favors the development of communication and decision-making skills. A wide range of teaching and learning tasks are implemented, such as:

- Seminars of experts on different fields of electronics engineering, seminars presenting the research lines managed by the Master's faculty and presentation of the Master's Dissertation proposals.

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- Lectures on management of research and innovation.
- In case sessions students will present a research assignment previously arranged with faculty.

Students are expected to participate actively in the class throughout the semester.

Classroom materials will be available via Moodle. These include a repository of the lecture notes used in class, the course syllabus, as well as other course-specific learning materials.

Further information regarding the course will be provided on the first day of class.

5.2.Learning tasks

The course includes the following learning tasks:

Classroom activities (2.4 ECTS: 60 hours)

- A01 **Lectures** (40 hours). They consist on seminars of external experts, the presentation of the research activity managed by the Master's faculty and the basics of the management of the research resources.
- A02 **Case sessions** (18 hours). Students present a research assignment, including a review of the state-of-the-art, theoretical background, simulations and experimental results.
- A08 **Assessment activities** (2 hours). Evaluation consists of an exam, the assessment of the research assignment presentation and the evaluation of the reports about some seminars.

Autonomous work (3.6 ECTS: 90 hours)

- A06 **Assignments** (60 horas). Preparation of the seminar reports, and the research assignment.
- A07 **Study** (30 horas). Study time oriented to prepare the exam and the research assignment.

5.3.Syllabus

The course will address the following topics:

Topic 1. Presentation of research lines and Master's Dissertation proposals managed by the Master's faculty.

Topic 2. Management of the research and innovation activities.

Topic 3. Seminars of experts.

Topic 4. Presentation of cases.

5.4.Course planning and calendar

In general, the first semester is focused on presenting the faculty research lines, the Master's Dissertation proposals and part of the seminars. Basics of research management and the rest of seminars will be held on the second semester.

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the website of the School of Engineering.

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5.5.Bibliography and recommended resources

1. Basic materials: will be uploaded at the start of the academic year in http://moodle2.unizar.es

2. Recommended materials:

Materials of this course are spread in different web pages. Some examples of thes sites are the following:

- http://i3a.unizar.es/
- http://www.idi.mineco.gob.es/
- http://www.aragoninvestiga.org/
- http://ieeexplore.ieee.org/Xplore/guesthome.jsp
- http://worldwide.espacenet.com