

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	534 - Master's in IT Engineering
ECTS	6.0
Year	1
Semester	Second semester
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. A wide range of teaching and learning tasks are implemented, such as

- Lectures.
- The teacher explanations will be complemented by lectures and seminars of experts from the university or related companies.

62229 - ICT innovation management

- Real examples and case-based learning and independent work of students will be promoted.
- Practice sessions.
- Individual and group tutorials.
- Preparation of a project. It will consist of a group project whose specific goal is the development of a R&D&i project's proposal that could be submitted to a public call. Students will organize themselves in small groups and will plan their tasks and how to use the degree contents. Finally, they must show their interpersonal communication and teamwork skills. Teachers supervise the proper development of each project, marking milestones and checking their progress.

5.2.Learning tasks

The course (150 hours) includes the following learning tasks:

- Classroom activities (50 hours). Seminars, problem solving, laboratory, visits, etc.
- Practice and research assignments (75 hours).
- Tutorials (5 hours).
- Autonomous work and study (15 hours).
- Assessment (5 hours).

5.3.Syllabus

The course will address the following topics:

Topic 1. General notions and theoretical concepts

- Basic concepts on research, development and innovation. The role of innovation in enterprises and public administrations. The inclusion of diversity and gender.
- Models for technological innovation. (1) Structure of innovative ecosystems (universities, research centers, companies, science parks, technology centers, business incubators, interface structures, etc); (2) Innovation indicators, (3) Culture technological innovation, (4) Open innovation, (5) Modes to promote innovation in collective contexts.
- IT product lines.

Topic 2. Administrative structure of R&D. Funding Methods

- Models for managing R&D&i projects. Public-private partnerships.
- Administrative levels linked to public funding of R&D&i. Development in detail of the structure and programs of the Spanish national system and the European funding system of R&D&i.

Topic 3. Methodology for innovation and practical skills

- Development of competitive research proposals: models, structures and patterns, life cycle, best practices.
- Execution of R&D&i projects: project development, administrative and technical justification.
- Protection of R&D in the field of ICT: utility models protection, limitations.
- Examples of successful innovation in ICT companies.
- Defense proposals and presentation of results.

5.4.Course planning and calendar

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.

5.5.Bibliography and recommended resources