

62229 - ICT innovation management

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	534 - Master's in IT Engineering
ECTS	6.0
Course	1
Period	Second semester
Subject Type	Compulsory
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

The learning process for this subject has been designed based on the following:

The teacher explanations will be complemented by lectures and seminars of experts from the university or related companies. Real examples and case-based learning and independent work of students will be promoted. Practical sessions and individual and group tutorials will be used.

The program offered to the student includes the following activities ...

- Interactive lectures
- Professional seminars
- Case analysis

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- Development of a project

The development of a project 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 have to be organized in small groups and to plan their tasks and use the best knowledge learned in the course and in previous courses. Finally, they must show their interpersonal communication skills and teamwork. Teachers supervise the proper development of each project, marking milestones and checking their progress.

5.2.Learning activities

The subject consists of 6 ECTS credits. Two of them correspond with the assistance to classes and practical sessions. The other four correspond with non presential work. Therefore, the dedication of each student to achieve the learning outcomes in this subject is estimated in 150 hours (50 presential hours and 100 non presential hours) distributed as follows:

45 hours, approximately, of classroom activities (lectures including professional seminars, problem solving and cases, and laboratory practice).

90 hours of group work.

10 effective working hours and individual study.

5 hours devoted to various evaluation tests.

5.3.Program

The course will focus on understanding, analysis and evaluation of the following contents:

General notions and theoretical concepts

- Basics 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.

Administrative structure of R&D. Methods of financing

- 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 system of financing R&D&i.

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.Planning and scheduling

The educational organization planned for the sessions is as follows:

- Lectures
- Troubleshooting and cases

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The proposed projects will be delivered at the end of the semester, the dates will be indicated.

5.5. Bibliography and recommended resources