

Información del Plan Docente

Academic Year 2016/17

Academic center 175 - Escuela Universitaria Politécnica de La Almunia

179 - Centro Universitario de la Defensa - Zaragoza

Degree 425 - Bachelor's Degree in Industrial Organisational Engineering

457 - Bachelor's Degree in Industrial Organisational Engineering

ECTS 6.0

Course

Period Half-yearly

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

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

Strong interaction between the teacher/student. This interaction is brought into being through a division of work and



responsibilities between the students and the teacher. Nevertheless, it must be taken into account that, to a certain degree, students can set their learning pace based on their own needs and availability, following the guidelines set by the teacher.

The current subject Management of innovation and technology policy is conceived as a stand-alone combination of contents, yet organized into three fundamental and complementary forms, which are: the theoretical concepts of each teaching unit and the solving of problems or resolution of questions, at the same time supported by other activities. The organization of teaching will be carried out using the following steps:

— Theory Classes: Theoretical activities carried out mainly through exposition by the teacher, where the theoretical supports of the subject are displayed, highlighting the fundamental, structuring them in topics and or sections, interrelating them.

— Practical Classes: The teacher resolves practical problems or cases for demonstrative purposes. This type of teaching complements the theory shown in the lectures with practical aspects.

— Individual Tutorials: Those carried out giving individual, personalized attention with a teacher from the department. Said tutorials may be in person or online.

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The learning process is based on interactive methodologies and classroom-based classes. Lectures and seminars comprehend the basic knowledge of the curse.

In small groups, the students co-operate with their fellow students to accomplish the assessments (essays, case studies, project reports, etc.) proposed by the teacher. They provide an adequate balance between theory and practice to enhance the learning competences.

A specific assessment is the research about a technology with interest for security and defence sector -or a dual-use technology- that they have chosen and confirmed with the teacher not only the viability, but also the size group. Guidance about the overall assessment process will be provided in Moodle.

The independent study is attended by teacher under request.

At the end of the semester, an exam will be required in order to check if the students have gained an understanding of all aspects of the relevant core modules.

5.2.Learning activities

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The programme offered to the student to help them achieve their target results is made up of the following activities...

Involves the active participation of the student, in a way that the results achieved in the learning process are developed, not taking away from those already set out, the activities are the following:

— Face-to-face generic activities:

● Theory Classes: The theoretical concepts of the subject are explained and illustrative examples are developed as support to the theory when necessary.

● Practical Classes: Problems and practical cases are carried out, complementary to the theoretical concepts studied.



— Generic non-class activities:

●; Study and understanding of the theory taught in the lectures.

● Understanding and assimilation of the problems and practical cases solved in the practical classes.

● Preparation of seminars, solutions to proposed problems, etc.

● Preparation of summaries and reports.

● Preparation of the written tests for continuous assessment and final exams.

The subject has 6 ECTS credits, which represents 150 hours of student work in the subject during the trimester, in other words, 10 hours per week for 15 weeks of class.

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- Lectures
- Seminars
- Teamwork in essays, case studies, project reports and technology analysis
- Independent study

Innovation support policies

Written exam

5.3.Program

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Innovation
The innovative process
Company strategy and technology strategy
Creativity
Technological surveillance
Technology foresight
The management of research, development and innovation projects
Protection of innovation
The buying and selling of technology
Cooperation between businesses



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Part 1:

- 1. Introduction to innovation
- 2. Firm's innovation stratey
- 3. Management teams for innovation development

Part 2:

- 1. Foresight and technological prospective
- 2. Technology audit
- 3. Appropriating Innovation Managing Industrial property
- 4. Research and Development Project Management

Part 3:

- 1. Technology transfer and cooperation
- 2. Innovation systems

5.4. Planning and scheduling

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Class hall sessions & work presentations timetable

The dates of the final exams will be those that are officially published at http://www.eupla.es/secretaria/academica/examenes.html.

The written assessment tests will be related to the following topics:

— Test 1: Topics 1, 2 & 3. — Test 2: Topics 4, 5, 6 & 7. — Test 3: Topics 8, 9, 10 & 11.

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Moodle is an e-learning facility that allows for the uploading of documents and notices about the planning and scheduling.

The lectures, seminars and cases will be announced in advance during class.

The official web site announces the written exam dates.

5.5.Bibliography and recomended resources

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- Riola Rodríguez, J. M. ?La política de I+D en Defensa: Metas y retos tecnológicos? En: Las Tecnologías de Doble Uso: La Investigación y el desarrollo al Servicio de la Sociedad Civil y Militar. I Jornadas, 2011, pp. 13?22.
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Materials

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Material	Format
Topic theory notes Topic problems	Paper/repository
Topic theory notes	
Topic presentations Topic problems	Digital/Moodle E-Mail



Related links	
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