

30132 - Management of Innovation and Technology Policy

Syllabus Information

Academic Year: 2019/20

Subject: 30132 - Management of Innovation and Technology Policy

Faculty / School: 175 - Escuela Universitaria Politécnica de La Almunia

Degree: 425 - Bachelor's Degree in Industrial Organisational Engineering

ECTS: 6.0

Year: 4

Semester: First semester

Subject Type: Compulsory

Module: ---

1.General information

1.1.Aims of the course

The aim of the course is to provide students with a solid basis in the field of the application of innovation and technological change in organizations.

1.2.Context and importance of this course in the degree

The course enables students to apply the knowledge acquired in other previous subjects, both with an economic, and techno- scientific nature, which will provide them with the skills and knowledge to give a better performance. Students are expected to identify technologies and knowledge about which he should keep an autonomous contact that will allow them to work out project-like solutions, to complex problems from a strategic management perspective.

1.3.Recommendations to take this course

The usual ones to access the studies of any engineering degree, basically having completed the scientific-technological baccalaureate and knowledge of economic management.

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

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

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

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 the resolution of questions, at the same time supported by other activities.

The organization of teaching will be carried out using the following steps:

- Lectures: Theoretical activities carried out mainly through exposition by the teacher, where the theoretical supports

of the subject are displayed, highlighting the fundamental, structuring them into topics and or sections, interrelating them.

- Practice Sessions: 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.

4.2.Learning tasks

The course involves the active participation of the student, in a way that the results achieved in the learning process are developed and includes the following learning tasks:

- Face-to-face generic activities:

* **Theory Classes:** The theoretical concepts of the subject are explained and illustrative examples are developed as a 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.

4.3.Syllabus

The course will address the following topics:

- 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
- Innovation support policies

4.4.Course planning and calendar

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Class hall sessions & work presentations timetable

The dates of the final exams will be those that are officially published at

<https://eupla.unizar.es/asuntos-academicos/examenes>

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.

4.5.Bibliography and recommended resources

http://biblos.unizar.es/br/br_citas.php?codigo=30132&year=2019