

30323 - Telecommunications Projects Management

Syllabus Information

Academic year: 2023/24

Subject: 30323 - Telecommunications Projects Management

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 438 - Bachelor's Degree in Telecommunications Technology and Services Engineering
581 - Bachelor's Degree in Telecommunications Technology and Services Engineering

ECTS: 6.0

Year: 438 - Bachelor's Degree in Telecommunications Technology and Services Engineering: 4

581 - Bachelor's Degree in Telecommunications Technology and Services Engineering: 3

Semester: 438 - First semester

581 - Second semester

Subject type: Compulsory

Module:

1. General information

The objective of the subject Telecommunications Project Management is to provide the student with the knowledge and methodologies necessary to understand, design, implement and manage projects in telecommunications systems. The subject focuses on three main blocks, the general theory of projects, specific projects in telecommunications engineering, and the project for the creation of a new technology company.

These approaches and objectives are aligned with some of the Sustainable Development Goals, SDGs, of the 2030 Agenda 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>) and certain specific targets, so that the acquisition of the learning the learning results of the subject will contribute to some extent to the achievement of Goals 8.3 and 13.3, related to Goals 8 and 13.

2. Learning results

- Know the rules and regulations of telecommunications at the national, European and international levels.
- Know how to design and verify the operation of Telecommunication Systems.
- Know the methodological aspects and knows how to apply the tools for the planning of multidisciplinary telecommunication projects, as well as for their presentation and generation of the necessary documentation.
- Know the conditions for the exercise of the profession, the role of the professional associations and the basic regulations for the execution of a telecommunications project as an option in the free exercise of his profession.
- Understand the economic, social and environmental constraints of the telecommunication project.
- Know how to manage a telecommunication project in all the necessary aspects to bring it to a successful conclusion.
- Be familiar with team management techniques and have the ability to work in groups.
- Know how to detect risks and manage them appropriately.
- Know the business processes associated with the operations required by the telecommunications project.
- Have the ability to manage any deviations that may occur.

3. Syllabus

BLOCK 1.- General project theory

1.1 Project management, general aspects

1.2 Process groups in the development of a project

1.3 Areas of knowledge in project management

1.4 The project team and the project director

BLOCK 2.- Engineering Projects

- 2.1.- Preliminary Project and Report
 - 2.2.- Plans
 - 2.3.- Budget
 - 2.4.- Telecommunications Projects
 - 2.4.1.- ICTs
 - 2.4.2.- Radio and TV projects
 - 2.4.3.- Professional associations
 - 2.4.4.- Current legislation.
 - 2.4.5.- R&D Project
 - 2.5.- CBP or CBT
- BLOCK 3.- Technological company project. How to create your company/project
- 3.1.- Business Plan
 - 3.methodologies

4. Academic activities

- Participative lectures: 42 hours

The contents of the subject will be presented, with a practical orientation towards the management of telecommunications projects.

- Problem solving and case studies: 6 hours

Real situations will be seen with the help of experts.

- Laboratory practices: 8 hours

Practical sessions will be held to complement the technical part of the engineering project to be carried out by the students.

- Teaching assignments: 27 hours

The ICT project will be carried out.

- Special practices in installations: 4 hours

Visit to a company related to the subject.

- Study and personal work: 60 hours

- Assessment tests: 3 hours

5. Assessment system

The subject will be assessed in the global assessment modality by means of the following activities:

- Intermediate tests and class activities (50% of the grade, minimum 4.5 out of 10).

In this test, questions and/or problems related to the subject syllabus will be posed. The quality and clarity of the answers will be evaluated, as well as the solution strategies proposed by the students.

- Laboratory practicals (10% of the grade, minimum 4.5 out of 10).

In this test there will be practice sessions complementary to the practical group project. The delivery of the work done in each session will be required for its assessment.

- Project (40% of the grade, minimum 4.5 out of 10).

An engineering project related to the contents of the subject will be carried out. It will be carried out in a group, and a report must be submitted to, which will be defended by its members through an oral presentation. The quality of the solution and the degree of justification of the solution reached will be evaluated.

If the student has not passed any of these activities during the semester, they will have the opportunity to pass the subject by means of a global test in the two official exams.

The subject is passed with an overall grade of 5 out of 10.