

60965 - Integration of technologies and telecommunication systems

Syllabus Information

Academic year: 2024/25

Subject: 60965 - Integration of technologies and telecommunication systems

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 623 - Master's Degree in Telecommunications Engineering

ECTS: 6.0

Year: 2

Semester: First semester

Subject type: Compulsory

Module:

1. General information

The objective of the subject is to provide the student with a global vision of the activities and applications of telecommunication technologies and systems and with the ability to search for the best solutions to problems related to telecommunication engineering. This subject has a strong multidisciplinary character within telecommunication technologies, so it is advisable that the student has acquired the basic knowledge and skills in these disciplines.

2. Learning results

- To understand the relationships between the different technological areas of telecommunication engineering.
- To apply technological knowledge to project, calculate and design products, processes, installations and services in the different fields of telecommunication engineering.
- To apply the technological knowledge of the different areas of telecommunication engineering to solve complex problems in any type of environment within multidisciplinary fields.

3. Syllabus

1. ICT application scenarios in different sectors.
2. Introduction to design thinking.
3. Development of small projects.
4. Presentation of projects using innovative techniques.

4. Academic activities

- Master classes and case studies: participatory master classes introducing different technologies. They may include lectures given by renowned experts.
- Special practical classes: tutored practical classes for the creation of small projects.
- Tutored practical work: preparation of tutored work, either individually or in groups.

5. Assessment system

The student will be able to pass the subject through continuous assessment, consisting of:

Tutored work: The tutored assignments represent 100% of the final grade. During this activity, students will be asked to work individually or in groups. The papers will be delivered and defended by its members through an oral presentation. The quality of the solution and its degree of justification will be assessed. In addition, the originality of the solutions, the ability to work in groups, to coordinate the work and to transmit relevant information orally and in writing will be evaluated.

The student who has not passed the subject by continuous assessment will have a global test in each of the exams established throughout the academic year. Dates and times will be determined by the Centre.

6. Sustainable Development Goals

- 8 - Decent Work and Economic Growth
- 9 - Industry, Innovation and Infrastructure