

60933 - Integration of technologies and telecommunication systems

Información del Plan Docente

Academic Year	2017/18
Subject	60933 - Integration of technologies and telecommunication systems
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	533 - Master's Degree in Telecommunications Engineering
ECTS	5.0
Year	2
Semester	First semester
Subject Type	Compulsory
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

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

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as

- **M1 Lectures.** Presentation of the main course contents combined with the active participation of students. This

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activity will take place in the classroom. This methodology, supported by the the student's autonomous work (M14) is designed to provide the students with the necessary theoretical aspects of the course.

- **M8 Practice sessions.** Sessions of problem-solving and practical cases proposed by the teacher, related to the lectures. Students may present individually or in groups their results under the teacher's supervision. This activity will take place in the classroom.
- **M9 Laboratory sessions.** In small groups, students do a series of practical tasks.
- **M4 Guided assignment.** Students prepare an assignment in groups, under the teacher's supervision.
- **M10 Tutorials.** Teacher's office hours to review and discuss the materials and topics presented in both lectures and practice sessions.
- **M11 Assessment.** A set of tests used in the evaluation of the student. The details are in the "Assessment" section.

5.2.Learning tasks

The course includes the following learning tasks:

- Lectures by renowned experts.
- Lectures for the introduction of different technologies.
- Supervised practice sessions to carry out small projects.
- Assignment either individually or in groups.

5.3.Syllabus

The course will address the following topics:

1. Scenario applications of ICTs in different sectors.
2. Introduction to Design Thinking.
3. Introduction to LabView. Application to practical cases.
4. Introduction to Arduino and Arduino development projects.
5. Elaboration of small projects.
6. Presentation of projects using innovative techniques.

5.4.Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the EINA website.

5.5.Bibliography and recommended resources

There is no bibliography for this course.