

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	438 - Bachelor's Degree in Telecommunications Technology and Services Engineering
ECTS	6.0
Year	4
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**

Learning Process:

1. Study and work starting from the very first day.
2. Classes that will develop the main course concepts on Analysis, Design and Testing of Software Systems. Students will be specially involved in the class development.
3. Classes devoted to apply the main course concepts by means of problem solving. Students will play a primary role to achieve success.

30366 - Software Analysis and design

4. Laboratory classes. Students will learn techniques, methods and technologies for Analysis, Design, Implementation and Testing of Software Systems.
5. Development of a small scale software system.

Students Work:

150 hours of effective work as follows:

- Around 55 hours for face to face activities with the Professor (theory - 20 hours -, problems -15 hours-, laboratory - 20 hours -)
- Around 55 hours for work group
- Around 35 hours for individual work and study
- Around 5 hours for evaluation

5.2.Learning tasks

Activities for addressing the expected results ...

1. Classroom classes will develop the course programm
2. Classes specially devoted to solve problems related to the course programm
3. Laboratory classes for software development activities
4. Small scale software development (Course Project)

5.3.Syllabus

- Introduction to Software Engineering: Software Life-cycle
- Software Requirements
- Object-oriented Software Design: Static modeling, Dynamic modeling
- Object-oriented Software Design: Design Patterns
- Basis on Software Testing
- Distributed Objects

5.4.Course planning and calendar

Calendar:

- Classes for Theory and Problems (2 hours per week during 10 weeks; 3 hours per week during 5 weeks)
- Laboratory (6 sessions of 3 hours per session)
- Project course tracing (1 hour per week, unevenly applied)

5.5.Bibliography and recommended resources