

30366 - Software Analysis and design

Información del Plan Docente

Academic Year 2016/17

Academic center 110 - Escuela de Ingeniería y Arquitectura

Degree 438 - Bachelor's Degree in Telecomunications Technology and Services

Engineering

ECTS 6.0

Course 4

Period First semester

Subject Type Compulsory

Module ---

- 1.Basic info
- 1.1.Recommendations to take this course
- 1.2. Activities and key dates for the course
- 2.Initiation
- 2.1.Learning outcomes that define the subject
- 2.2.Introduction
- 3.Context and competences
- 3.1.Goals
- 3.2. Context and meaning of the subject in the degree
- 3.3.Competences
- 3.4.Importance of learning outcomes
- 4.Evaluation
- 5. Activities and resources

5.1.General methodological presentation

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.
- 4. Laboratory classes. Students will learn techniques, methods and technologies for Analysis, Design, Implementation and Testing of Software Systems.



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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 activities

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.Program

- 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. Planning and scheduling

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 recomended resources