60950 - Technologies and models for developing distributed applications

Información del Plan Docente

Academic Year	2017/18
Subject	60950 - Technologies and models for developing distributed applications
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	533 - Master's Degree in Telecommunications Engineering
ECTS	6.0
Year	2
Semester	Second semester
Subject Type	Optional
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 lectures, problem-solving, seminars by experts, laboratory sessions, small group guidance and feedback, and assessment.

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5.2.Learning tasks

The course includes the following learning tasks:

- Teaching sessions (40 hours, three weekly hours). Lectures, problem-solving, laboratory sessions.
- Project (80 hours).
- Autonomous work and study (25 hours)
- Assessment tasks (5 hours).

5.3.Syllabus

The course will address the following topics:

1. Basics of distributed Internet applications.
2. Technologies, frameworks and standards for the development of Internet applications.
3. Security, semantics and other horizontal issues.
4. Design of distributed Internet applications.
5. Integration of components by means of events and messages.
6. Basic concepts and principles for the design of applications in cluster, grid and cloud environments.
7. Resource management models (processing, storage, network...) for cluster, grid and cloud environments.

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 and Moodle.

5.5.Bibliography and recommended resources

During the course, specific bibliography will be suggested for every topic.