60950 - Technologies and models for developing distributed applications

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	533 - Master's Degree in Telecommunications Engineering
ECTS	6.0
Course	2
Period	Second semester
Subject Type	Optional
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

The learning and teaching activities are based on classroom lectures (both for the exposition of theory and examples and for the resolution of problems), seminars by external experts when possible, laboratory assignments, small group guidance and feedback and evaluation of the results.

5.2.Learning activities

The course requires some 150h of student work (40 of them in the classroom) distributed as follows:

- 40 hours in the classroom (theory and examples, problems and laboratory assignments).
- 80 hours of work in the project.
- 25 hours of study.
- 5 hours in evaluation activities.

5.3.Program
- Foundations of distributed Internet applications.
- Technologies, frameworks and standards for the development of Internet applications.
- Security, semantics and other horizontal issues.
- Design of distributed Internet applications.
- Integration of components by means of events and messages.
- Basic concepts and principles for the design of applications in cluster, grid and cloud environments.
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  Resource management models (processing, storage, network...) for cluster, grid and cloud environments.

5.4.Planning and scheduling

The schedule of the course will be aligned to the academic global schedule.
The classroom activities (theory, problems and laboratory assignments) will take three hours per week.
The timetables and deadlines for the project, exam and the other activities will be announced through the college web page and the Moodle site of the course.

5.5.Bibliography and recomended resources

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