

Academic Year/course: 2022/23

62227 - Technologies and models for developing distributed applications

Syllabus Information

Academic Year: 2022/23

Subject: 62227 - Technologies and models for developing distributed applications

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

Degree: 534 - Master's Degree in Informatics Engineering

ECTS: 6.0

Year: 1

Semester: Second semester

Subject Type: Compulsory

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. 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, laboratory assignments, small group guidance and feedback, and assessment.

4.2. Learning tasks

The course (150 hours) includes the following learning tasks:

- 45 hours: Lectures and problems
- 99 hours: Group work and study
- 6 hours: Assessment

4.3. Syllabus

The course will address the following topics:

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

4.4. Course planning and calendar

Information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class and on the EINA website.