

62226 - Ubiquitous embedded systems

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	534 - Master's in IT Engineering
ECTS	6.0
Course	1
Period	Second 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

The learning process designed for this course is based on the following:

Teaching activities and classroom learning:

1. Master class. 2. Laboratory. 3. Tutoring. 4. Evaluation.

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Teaching activities and non-contact learning are based on:

1. Home work. 2. Theoretical study. Study related to "lectures" content: study includes any activity that has not been computed in the previous section (study evaluation, library work, further reading, doing exercises and problem solving, etc.)

5.2.Learning activities

The course consists of 6 ECTS corresponding to 150 estimated hours of student work (60 contact hours and 90 hours of personal work) distributed as follows:

* 55 hours (approximately), of classroom activities (lectures including professional seminars, problem solving and cases studies, and laboratory assignment).

* 60 hours of project work.

* 30 hours of work and effective individual study.

* 5 hours devoted to various evaluation tests.

5.3.Program

1. Introduction
2. Embedded Computing Components, programming, time sequential sampled, concurrent, cyclic, interruptions

3. S.O.
4. Single Node
5. Network Architecture Network

1. Physical layer, link, MAC
2. Name and address
3. Control topology
4. Location and timing
5. Transport and applications

5.4.Planning and scheduling

The learning organization of the classroom sessions are scheduled as follows:

* Lectures and exercises solving and case studies

* Lab assailments

The schedules of all classes and dates of the practice sessions will be announced well in advance through the websites of the center and the course.

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The proposed projects will be delivered at the end of the semester, the dates will be indicated.

5.5. Bibliography and recommended resources