

30241 - Embedded Systems Laboratory

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	439 - Bachelor's Degree in Informatics Engineering
ECTS	6.0
Course	4
Period	Indeterminate
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

This class enables students to acquire the set of skills and abilities required to deal with semester-long projects. Monthly, students have to complete milestones and present their progress in the lab. Therefore, there are almost no theory classes. Milestones enable a continuous tracking of the students, and, at each milestone, students have to defend their progress with real hardware demos and technical written reports showcasing their designs.

5.2.Learning activities

The schedule includes the following activities:

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1. Lectures: In these classes an introduction to each project will be done by reviewing the necessary theoretical knowledge, relating the knowledge acquired in previous courses, describing the support materials available, and briefly explaining the tasks.
2. Laboratory sessions (3 hours per week throughout the course), working in the laboratory with a teacher.
3. Study and personal work (55 estimated hours): students work on their own, using the material available to acquire the necessary skills and develop the requested project.
4. Drafting of documentation (20 hours): After completing the project, students must submit a report.
5. Deliveries and corrections (5 hours): Students must periodically submit the work to one of the teachers of the subject. These deliveries serve both to evaluate the student and to guide him. In addition teachers will review the reports submitted by students and provide feedback.

5.3.Program

Project development of an embedded system, hardware and software with real-time constraints. Performance analysis. Students have to defend their progress with real hardware demos and technical written reports showcasing their designs.

5.4.Planning and scheduling

Class sessions are held in the laboratory according to schedule set by the center (schedules available on their website).

Each teacher will inform its hours of tutoring.

The other activities will be planned depending on the number of students and will be announced in advance. It can be found at the course web site at <http://moodle.unizar.es>

5.5.Bibliography and recommended resources

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