

62949 - Internet of Things

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	562 - Master's in Product Development Engineering
ECTS	4.5
Course	1
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 process design of this subject is based on the following:

The orientation of this subject is mainly practical. The proposed activities are focused on the learning based on the experience. The most suitable teaching strategies for relating theory and practice, resolution of problems and laboratory practices. The learning process of the course is based on:

- Presentation of theoretical aspects.
- Personal study by the students.
- Development of practical assignments

62949 - Internet of Things

5.2.Learning activities

The program is offered to assist students in achieving the intended learning objectives. It includes the following activities:

- Interactive lectures: The goal of the interactive lectures is to provide the necessary bases to understand the relevance of some theoretical aspects that cannot be learned in other activities.
- Resolution of problems: Some exercises will be solved, for applying the concepts and techniques introduced.
- Practical activities: The aim of practical activities is to apply the different techniques in product development design

5.3.Program

Theoretical contents

- Internet and the evolution of the web..
- Types of network computing
- Internet of things
- Design of intelligent devices
- Electronic communications between devices
- Interconnectivity and interoperability

Practical contents

- Sensing the world
- Embedded intelligence
- Interacting with the user
- Communicating machines and Internet

5.4.Planning and scheduling

The calendar of the subject will be determined by the academic calendar of the corresponding course in each of the centers where this subject is taught. The face-to-face sessions will have an estimated duration of 60 hours distributed between lectures, resolution of problems, and laboratory practice. The timetables of all the class hours and practical sessions will be announced with enough time in advance through the website of the center and the web page of the subject.

5.5.Bibliography and recommended resources