60811 - Industrial and R&D project management

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	532 - Master's in Industrial Engineering 330 - Complementos de formación Máster/Doctorado
ECTS	6.0
Course	XX
Period	Half-yearly
Subject Type	ENG/Complementos de Formación, 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

From a methodological point of view, the subject uses case based learning. Students will have the possibility of putting in value all the knowledge imparted in the lectures through the solution of case studies, practices with specific software and simulation workshops.

5.2.Learning activities

Lectures (30 hours)

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Each week students will have the opportunity to receive theoretical lessons covering the fundamentals topics of project management.

Practical sessions (20 hours)

session of practices with the software as Microsoft Project and ProSiGa.

Case studies (75 hours)

Time expected to carry out case studies presented where the student will acquire the majority of competences and of the results of learning of this subject. The cases will be carried our by teams.

Conferences and seminars (4 hours)

To complement the theoretical knowledge of the subject and enhance the knowledge in the field of project management are planned conferences of project management professionals.

Personal studio (20 hours)

concerning the average time estimated necessary for the preparation of the exam

Exam (1 hour)

This the time scheduled for the realization of the theoretical exam, mainly based on multiple choice questions.

5.3.Program

Lectures

1. Introduction and project life cycle.

2. Project scope and definition.

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3. Project management in research projects.

4. Time management.

5. Cost management.

6. Risk management.

7. Procurement management.

8. Health and safety in project management.

9. Human resources in project management.

10. Agile project management.

Case Studies

Case 1. Definition and scope.

Case 2. Microsoft Project

Case 3. Stochastic planning

Case 4. Project control through Earned Value Management

Case 5. Project risk management.

Case 6. Human resources in project management.

Case 7. Integration

Case 8. Project Simulation Game

Practical sessions

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Session 1. Microsoft Project

Session 2. Stochastic planning

5.4.Planning and scheduling

A detailled calendar with the planning of the learning activities of learning will be delivered to students at the beginning of the course.

5.5.Bibliography and recomended resources