

60811 - Industrial and R&D project management

Información del Plan Docente

Academic Year	2017/18
Subject	60811 - Industrial and R&D project management
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	532 - Master's in Industrial Engineering 330 - Complementos de formación Máster/Doctorado
ECTS	6.0
Year	1
Semester	Half-yearly
Subject Type	ENG/Complementos de Formación, Compulsory
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. It is based on case-based learning. Students will apply all the knowledge learned in the lectures through the solving of case studies, tasks with specific software and simulation workshops.

5.2.Learning tasks

The course includes the following learning tasks:

- **Lectures** (30 hours). Each week students will have the opportunity to receive theory sessions covering the fundamental topics of project management.
- **Practice sessions** (20 hours). Session using the software Microsoft Project and ProSiGa.
- **Case studies** (75 hours). Time expected to carry out case studies where the student will acquire the majority of expected competences and of the learning results of this course. The cases will be carried out by teams.
- **Conferences and seminars by professionals** (4 hours). Complementary activities to the lectures, which also enhance the knowledge in the field of project management.
- **Autonomous work and study** (20 hours). Average time estimated necessary for the preparation of the exam.
- **Exam** (1 hour). Time scheduled for the theoretical exam, mainly based on multiple choice questions.

5.3.Syllabus

The course will address the following topics:

Lectures

1. Introduction and project life cycle
2. Project scope and definition
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

Practice sessions

- Session 1. Microsoft Project
- Session 2. Stochastic planning

5.4.Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course, will be provided on the first day of class or please refer to the EINA website.

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5.5. Bibliography and recommended resources

- Cano, Juan Luis. Manual de gestión de proyectos / Cano J.L., R. Rebollar, I. Lidon. Zaragoza : Copycenter, 2012
- A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Fifth Edition. Project Management Institute.
- Kerzner, Harold. Project management : a systems approach to planning, scheduling, and controlling / Harold Kerzner.- 6th ed New York : John Wiley, cop. 1998
- NCB 3.1 Bases para la Competencia en Dirección de Proyectos. International Project Management Association. Ed. AEIPRO