

60829 - Materials for industrial applications

Información del Plan Docente

Academic Year	2017/18
Subject	60829 - Materials for industrial applications
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	532 - Master's in Industrial Engineering
ECTS	6.0
Year	2
Semester	First semester
Subject Type	Optional
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 cooperative learning and problem-based learning. It focuses on the study of industrial materials to understand their applications in different fields.

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5.2.Learning tasks

The course includes the following learning tasks:

- Lectures.
- Case studies and problem-solving tasks.
- Laboratory sessions.
- Visits to companies and laboratories involved in laser material processing.
- Workshops.

5.3.Syllabus

The course will address the following topics:

1. Materials for structural applications
2. Materials for functional applications
3. New materials for structural and functional applications
4. Procedures for selection of materials
5. Materials and their environmental impact

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.

5.5.Bibliography and recommended resources