Universidad Zaragoza
1542

Year : 2018/19

60829 - Materials for industrial applications

Syllabus Information

Academic Year:	2018/19
Subject:	60829 - Materials for industrial applications
Faculty / School:	110 -
Degree:	532 - Master's in Industrial Engineering
ECTS:	6.0
Year:	2
Semester:	First semester
Subject Type:	Optional
Module:	---

General information

Aims of the course

Context and importance of this course in the degree

Recommendations to take this course

Learning goals

Competences

Learning goals

Importance of learning goals

Assessment (1st and 2nd call)

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

Methodology, learning tasks, syllabus and resources

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.

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.

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

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.

Bibliography and recommended resources