

## 60829 - Materials for industrial applications

### Información del Plan Docente

<b>Academic Year</b>	2016/17
<b>Academic center</b>	110 - Escuela de Ingeniería y Arquitectura
<b>Degree</b>	532 - Master's in Industrial Engineering
<b>ECTS</b>	6.0
<b>Course</b>	2
<b>Period</b>	First semester
<b>Subject Type</b>	Optional
<b>Module</b>	---

### **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 program focus on the study of industrial materials to understand their applications in different fields. The program also

includes visits to laboratories and companies involved in laser material processing.

For this course the learning process is based on:

- Cooperative classroom techniques.
- Case studies and problem-based learning

- Practical classes and laboratory experience

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### 5.2.Learning activities

- Classroom activities and active learning laboratory
- Laboratory experiences
  
- Visit to companies
  
- Workshop activities

### 5.3.Program

- Materials for structural applications
  
- Materials for functional applications
  
- New materials for structural and functional applications
  
- Procedures for selection of materials
  
- Materials and their environmental impact

### 5.4.Planning and scheduling

At the beginning of the course there will be information about activities, documentation and dates of workshop presentations

### 5.5.Bibliography and recommended resources