

## 29750 - Measurement and Maintenance

### Información del Plan Docente

|                 |   |
|-----------------|---|
| Academic Year   | 2016/17   |
| Academic center | 110 - Escuela de Ingeniería y Arquitectura        |
| Degree          | 434 - Bachelor's Degree in Mechanical Engineering |
| ECTS            | 6.0   |
| Course          | 4   |
| Period          | Second semester                                   |
| Subject Type    | Optional  |
| 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

#### 5.2. Learning activities

#### 5.3. Program

Theoretical and practical agenda

1. Geometrical Product Specification. Tolerances
2. Design in precision engineering

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3. Coordinate Measuring
4. Verification of production systems
5. Industrial view. Non-contact measurement and reverse engineering
6. Predictive maintenance techniques and their applications.

### Lab practices

1. Industrial Metrology
2. Calibration techniques and equipment in dimensional metrology
3. Coordinate Measuring
4. Verification of production systems
5. Non-contact measurement and Reverse Engineering
6. Techniques of predictive maintenance

### **5.4.Planning and scheduling**

### **5.5.Bibliography and recommended resources**