

## 29723 - Machine Design Criteria

### Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	434 - Bachelor's Degree in Mechanical Engineering 330 - Complementos de formación Máster/Doctorado
ECTS	6.0
Course	XX
Period	Indeterminate
Subject Type	ENG/Complementos de Formación, Compulsory
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

- Introduction to mechanical design.
- Calculation of actuating systems in machines.
- Materials used in machines and their properties
- Stress analysis in machine components.

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- Design for static stress.
- Rigidity and deformation.
- Stress and strain on cylinders.
- Pressure unions.
- Bolted joints.
- Welded joints.

### 5.4.Planning and scheduling

### 5.5.Bibliography and recommended resources