

29746 - Mechanical Systems in Machines and Vehicles

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

- Brakes and clutches
- Variable speed drives, belts and chains.
- Calculation and dimensioning of springs
- Mechanical, pneumatic and hydraulics
- Using computer systems applied to the sizing of mechanical systems in machines and vehicles assisted.

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- Legislation applied to the automobile (national and European environment)
- Chassis and reforms in vehicles
- Calculation of transmission system components in vehicles
- Calculation of the braking system components in vehicles
- Calculation of components of the steering system on vehicles
- Calculation of suspension components in vehicles

5.4.Planning and scheduling

5.5.Bibliography and recommended resources