30054 - Mechanical Systems in Machines and Vehicles

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	436 - Bachelor's Degree in Industrial Engineering Technology
ECTS	6.0
Year	4
Semester	Second semester
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

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

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

5.2.Learning tasks

5.3.Syllabus

Brakes and clutches
Variable speed drives, belts and chains.

30054 - Mechanical Systems in Machines and Vehicles

Calculation and dimensioning of springs
Mechanical, pneumatic and hydraulics
Using computer systems applied to the sizing of mechanical systems in machines and vehicles assisted.
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.Course planning and calendar

5.5.Bibliography and recommended resources