30043 - Simulation and Analysis of Mechanical Systems in Mechatronics

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura
Degree	436 - Bachelor's Degree in Industrial Engineering Technology
ECTS	6.0
Course	4
Period	First 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

* C onventional and parametric design and modeling of mechanical systems
* C onventional or serial, parallel and Flexible Kinematics
* K inematic analysis of mechanical systems
* D ynamic analysis of mechanical systems and components

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* CAE Systems for analysis and simulation of mechanical systems
* D ynamic and resilient MEF analysis of mechanical systems and their elements
* Analysis of robots, space mechanisms

5.4.Planning and scheduling

5.5.Bibliography and recomended resources