

29705 - Mathematics II

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 1

Period Half-yearly

Subject Type Basic Education

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

Section 1. Linear Algebra

- 1. Matrices, determinants and ranks.
- 2. Linear systems and numerical methods.



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- 3. Vector spaces.
- 4. Linear applications.
- 5. Diagonalization.

Section 2. Geometry

- 1. Euclidean geometry. Inner product. Orthogonalization and applications.
- 2. Differential geometry: curves, Frenet frame, representation of plane curves.

5.4. Planning and scheduling

5.5.Bibliography and recomended resources