

29700 - Mathematics I

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

The course contents are divided into two main groups:

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Block 1: Differential Calculus. Analytical and numerical methods:

- Fundamental concepts (function, limit, continuity, derivability and differentiability).
- Polynomial approximation. Numerical methods.
- Applications.

Block 2: Integral Calculus. Analytical and numerical methods:

- Indefinite integral.
- Defined integral.
- Applications.

5.4.Planning and scheduling

5.5.Bibliography and recommended resources