

30000 - Mathematics I

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	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

The learning process that has been designed for this subject is based on the following:

- Study and the daily personal work of the student in relation to what has been taught in master classes.
- An account of the contents and problem solutions in blackboard classes, encouraging students to participate.
- Application of concepts and methods discussed in the sessions overseen by the teacher to the solving of problems, both individually or in a group.
- Problem solutions in practical laboratory sessions, taking advantage of the calculations and graphics offered by a

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computer.

- Personalized attention to students during tutorial sessions that the teacher establishes.

5.2.Learning activities

5.3.Program

The contents of the subject have been divided into the following sections:

1. Introduction.
2. Functions. Differentiable Functions of One Variable. Taylor's Theorem.
3. Interpolation.
4. Integral Calculus of Functions of One Variable. Numerical Integration.
5. Differentiability and integrability of Functions of Several Variables

5.4.Planning and scheduling

5.5.Bibliography and recommended resources