

30001 - Mathematics II

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	1
Semester	Half-yearly
Subject Type	Basic Education
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

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

- Continued study and work from the first day of class.
- Transmission of content through the master class, encouraging the participation of students.
- Implementation of such content to problem solving in small groups. Oral presentation of such problems.
- Practical classes. The computer as a tool for better assimilation of certain terms. Resolution of practical work, also in

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small groups.

- Personal attention.

5.2.Learning tasks

5.3.Syllabus

The planned contents are:

- Matrices
- Systems of linear equations
- Vector spaces
- Linear applications
- Matrix diagonalization
- Quadratic forms
- Inner product spaces
- Differential geometry of curves

5.4.Course planning and calendar

5.5.Bibliography and recommended resources