29707 - Fundamentals of computer studies

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

1. Introduction. Computer structure and functions. Hardware. Introduction to Operative Systems, applications of interest for the grade, programming languages, compilers and interpreters.

2. Basic data types, operators and expressions.

3. Control structures. Sequential, conditional, and iterative structures. Procedures and functions.

4. Complex data types. Data structures. Arrays: vectors and matrices.

5. Data input/output. Binary and text files.

5.4.Planning and scheduling

5.5.Bibliography and recomended resources