

30007 - Fundamentals of computer studies

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 designed learning process is based on:

- 1. Classic blackboard teaching.
- 2. Problem solving.
- 3. Self-studying.
- 4. Practical work, developing theoretical concepts.
- 5. The development of proposed programs of increasing difficulty.



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5.2.Learning tasks

5.3.Syllabus

- 0. Presentation
- 1. Introduction computer architecture, operating systems, networks, machine language, assembler, compilers, introduction to programming.
- 2. Data types internal representation, dominion, classification, integer, real, char, boolean.
- 3. Composution structures secuential, conditional iterative.
- 4. Behavior abstraction procedures and functions.
- 5. Data abstraction composed data types, arrays, records, strings.
- 6. Files sequential, text.

5.4. Course planning and calendar

5.5.Bibliography and recommended resources