Sistemas Informáticos (Computer Systems)

Unit 01. Study guide

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Unit 01. Functional elements of a computer

1. Dates

From 18/09/2023 to 01/10/2023. The length of the unit is 2 weeks (16 hours).

2. Previous knowledge
- Basic knowledge about computers.

3. Objectives
- To learn the historical evolution of computers.
- To learn which are the functional elements of a computer.
- To learn the most used computer architectures.
- To learn what is the instruction cycle.
- To learn differences between CISC and RISC CPUs.

4. Contents
- Historical evolution.
- Functional elements of a computer.
- Computer architectures.
- Instruction cycle.
- Instruction set.
- RISC and CISC CPUs.

5. Activities

It is very important to read the notes and perform the exercises. These exercises are not part of assessment, but note that it is very common to have several questions from this unit in the exam.

6. Recommendations

It is very important to go to the TC with the main concepts studied.