11470 - IO - Introduction to Computers

Coordinating unit: 230 - ETSETB - Barcelona School of Telecommunications Engineering
Teaching unit: 701 - AC - Department of Computer Architecture
Academic year: 2014
Credits: 6

Prior skills

No Previous Knowledge of computers is needed.

Requirements

Teaching methodology

Learning objectives of the subject

Students will learn the basic concepts behind computer structure.
Students will learn to program and debug in C.
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## Content

1. **Introduction to computer structure** .............................................................. (3 hours)

   Degree competences to which the content contributes:

   1.1. **Basic elements of computers**

   Degree competences to which the content contributes:

   1.2. **Memory**

   Degree competences to which the content contributes:

   1.3.

   Degree competences to which the content contributes:

2. **The C programming language**.............................................................................. (27 hours)

   Degree competences to which the content contributes:

   2.1. **Variables and constants**

   Degree competences to which the content contributes:

   2.2. **Conditional statements.**

   Degree competences to which the content contributes:

   2.3. **Iterative statements.**

   Degree competences to which the content contributes:

   2.4. **Language data types.**

   Degree competences to which the content contributes:
2.5. Arrays, structures, joints. Other data types

Degree competences to which the content contributes:

2.6. Pointers

Degree competences to which the content contributes:

2.7. Functions.

Degree competences to which the content contributes:

2.8. Strings

Degree competences to which the content contributes:

2.9. Structured programming.

Degree competences to which the content contributes:

2.10. Files

Degree competences to which the content contributes:

2.11. Bit management

Degree competences to which the content contributes:

Qualification system

Evaluation % Weight
Laboratory 25%
Partial Exam 25%
Final examination 50%
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Regulations for carrying out activities

Bibliography

Basic:

Material publicat pel Departament d'Arquitectura de Computadors.


Complementary:


Others resources:

Manual de usuario de Visual C