

11470 - IO - Introduction to Computer Systems

Coordinating unit: 230 - ETSETB - Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona
Teaching unit: 701 - AC - Department of Computer Architecture
Academic year: 2010
Degree: TELECOMMUNICATION ENGINEERING (Syllabus 1992). (Teaching unit Compulsory)
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.

Content

1. Introduction to computer structure (3 hours)

1.1. Basic elements of computers

1.2. Memory

1.3.

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

2.1. Variables and constants

2.2. Conditional statements.

2.3. Iterative statements.

2.4. Language data types.

2.5. Arrays, structures, joints. Other data types

2.6. Pointers

2.7. Functions.

2.8. Strings

2.9. Structured programming.

2.10. Files

2.11. Bit management

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Qualification system

Evaluation %Weight
Laboratory 25%
Partial Exam 25%
Final examination 50%

Regulations for carrying out activities

Bibliography

Basic:

Material publicat pel Departament d'Arquitectura de Computadors.

Peña, M.A.; Cela, J.M. *Introducción a la programación en C* [on line]. Barcelona: Edicions UPC, 2000 [Consultation: 02/09/2009]. Available on: <<http://biblioteca.upc.es/EdUPC/locate4.asp?codi=IN023XXX>>. ISBN 8483014297.

Col·lecció de problemes.

Complementary:

Gottfried, B.S. *Programación en C*. 2a ed. rev. McGraw Hill, 2005. ISBN 8448198468.

Canosa, J. *Curso experimental de lenguaje C*. Marcombo, 1992. ISBN 842670851X.

Kernighan, B.W.; Ritchie, D.M. *El lenguaje de programación C*. 2a ed. Prentice Hall, 1991. ISBN 9688802050.

Others resources:

Manual de usuario de Visual C