Login

Politecnico di Torino

Academic Year 2009/10 (first time established in A.Y.2007/08)

02KYAJA

Computer programming

1st degree and Bachelor-level of the Bologna process in Electronic And Computer Engineering - Vercelli (III FACOLTA' DI INGEGNERIA)

Teacher	Status	SSD	Les	Ex	Lab	Years Stability
Sisto Riccardo	PO	ING-INF/05	30	30	10	0

SSD	CFU	Activities	Area context
ING-INF/05	7	F - Altre (art. 10, comma 1, lettera f)	Altro

Esclusioni:
Programmazione (01CBG)

Objectives of the course

The course introduces the basic elements of computer programming using high level languages, with particular reference to the C programming language. The use of the simplest data structures is presented too. The course is a basis for subsequent programming courses in the curriculum.

Expected skills

Ability to develop simple programs in high level languages starting from their requirements.
Knowledge of the main problem solving techniques and of modular and structured programming.

Prerequisites

The necessary background knowledge is provided by the 'Fundamentals of computer science' module.

Syllabus

Structured programming and modular programming in the ANSI C language. Problem solving techniques. Static and dynamic elementary data structures (arrays, linked lists hash tables). Abstract data type (ADT) concept and its application to modular programming.

Laboratories and/or exercises

Exercises on programming using the C language (in laboratory).

Bibliography

- Kernighan & Ritchie "The C Programming Language" 2nd ed., Prentice-Hall.
-Cormen T.H., Leiserson C.E., and Rivest R.L. "Introduction to Algorithms", McGraw-Hill.

Revisions / Exam

Examination is both written and oral. Written examination takes place first and is the development of a program that solves a given problem. Oral examination follows written examination and consists of discussion and evaluation of the program developed in written examination.

Programma definitivo per l'A.A.2009/10

BACK