Politecnico di Torino

Academic Year 2010/11 (first time established in A.Y.2007/08)

01JEYJA

Object oriented 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
Rivoira Silvano	PO	ING-INF/05	3	1	1	1

SSD	CFU	Activities	Area context
ING-INF/05	5	B - Caratterizzanti	Ingegneria informatica

Objectives of the course

The course aims to introduce the concepts of Object Oriented Programming from the viewpoint of software engineering.
The methodology is described by several examples represented by UML diagrams and implemented in Java.

Expected skills

Knowledge of: the object oriented methodology, the Java programming language, the Eclipse software development environment.

Prerequisites

Knowledge of basic algorithms and data structures in high level programming (C language).

Syllabus

Object Oriented Programming
The Java technology
Classes
Objects
Class Design
Inheritance
Polymorphism
Exception Handling
The Java language
Case Study
Object Oriented Analysis/Design
Java Class Library
Collections Framework
Files and Streams
Multithreading
Graphical User Interfaces and Applets
Reflection

Laboratories and/or exercises

Program development in Java with Eclipse.

Bibliography

' D. J. Barnes, M. Kölling : Objects First with Java , Prentice Hall / Pearson Education , 2003
' H. M. Deitel, P. J. Deitel : Java How to Program , 5/E , Prentice Hall , 2002

Revisions / Exam

Written examination.

Programma definitivo per l'A.A.2010/11

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