

DTC-GITT-223 Object Oriented Programming

SEMESTER: Fall

CREDITS: 6 ECTS (4 hrs. per week. 3h Theory + 1h Lab)

LANGUAGE: Spanish

DEGREES: GITT

Course overview

This course is for those who can already program in a procedural language such as C. It introduces the student to basic and advanced object-oriented programming concepts through Java language. Besides, the student will deploy a desktop commercial application as final project.

Prerequisites

DTC-IND-185: Fundamentals of Computer Science or C programming knowledge.

Course contents

Theory:

1. Java Software Development Kit.
2. Object-Oriented Programming.
3. Introduction to Java SE.
4. Fundamental Classes.
5. Packages.
6. Access Modifiers.
7. Collections.
8. Objects Relationship.
9. Graphics User Interface Programming.
10. Exceptions.
11. Input/Output.

Laboratory:

Each unit described previously has at least one associated lab practice.

Textbook

- Bruce Eckel. Thinking in Java, 4th Edition. Prentice-Hall International Edition, 2006.

- Bruce Eckel. Thinking in Java, 3rd Edition. On-line available:
<http://www.mindview.net/Books/TIJ/>

Grading

- Final exam accounts for 65% of the final grade.
- Mid-term exam and continues evaluation account for 15%.
- Final project accounts for 20%.