Object Oriented Programming

MEEC - 2014/15

https://fenix.tecnico.ulisboa.pt/disciplinas/POO364511/2014-2015/2-semestre/pagina-inicial

Lecturers

- Lectures and labs (responsible)
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Evaluation method

- **Final exam** [10 points out of 20]

- **UML/Java project** [6 points out of 20]
    - Team project in groups of 2 (or 3) students.
    - With oral discussion.
    - UML – 1 point; Java – 5 points.

- **Problems** [4 points out of 20]
    - 2 laboratory evaluations, both done individually in a laboratory.
    - Each evaluation takes 60 minutes.
    - 1st lab evaluation – 2 points; 2nd lab evaluation – 2 points.

There are no minimum mark requirements!

Important dates

March 30 – 31   Project assignment
April   13 – 17   1st Laboratory evaluation
May   11 – 15   2nd Laboratory evaluation
May   18   Project report
May   18 – 29   Project oral discussion

June   19   1st Exam
July   3   2nd Exam

Program

1. OO history and background.

2. UML modelling: classes, objects, methods, inheritance, associations, interfaces, packages and exceptions.

3. Java programming: classes, objects, methods, inheritance, associations, interfaces, packages, exceptions, containers, comparators, iterators, input/output and graphical programming with Swing.

4. SAX and DOM tools for XML analysis.

5. HTML, Java applets and JavaScript.

Bibliography

- **Recommended Bibliography**
  - Grady Booch, James Rumbaugh, Ivar Jacobson
    The Unified Modeling Language User Guide
  - Ken Arnold, James Gosling
    The Java Programming Language
- **Optional Bibliography**
  - Martin Fowler, Kendall Scott
    UML Destilled: A Brief Guide to the Standard Object Modeling Language
  - Bruce Eckel
    Thinking in Java

Tools

- **[Java] Java SE JDK (last version, but at least 5.0)**
  http://www.oracle.com/technetwork/java/javase/downloads/index.html

- **[Java IDE] Eclipse, for Java developers (last version)**
  http://www.eclipse.org/downloads/

- **[UML modelling] Visual Paradigm**
  https://delta.ist.utl.pt/software/visual_paradigm.php

Alternative tools can be found in the laboratories' section, in OOP web page!