

Object Oriented Programming

Syllabus: 2022/2023

- 1 - Object Oriented Programming features.
- 2 - Class based languages (classes and object instantiation).
- 3 – Class composition.
- 4 – Inheritance mechanism.
- 5 – Polymorphism.
- 6 – Abstract classes and interfaces.
- 7 – Exceptions.
- 8 – Generic types and functions. Anonymous functions
- 9 – Event-driven programming and interactivity.
- 10 - Languages and development environments; object oriented analysis, project and implementation.

Bibliography

[1] “Thinking in Java”, Bruce Eckel

[2] “An Introduction to Object-Oriented Programming with Java”, C. Thomas Wu, McGraw-Hill

Assessment:

1 - Project (to do in group) – to deliver on December, 30th, until 24 O'clock – 4 points

2 - Written test, December 12th, 16:00 O'clock – 13 points

3 – Work in lab classes: 3 points

Block 1: 1 point

Weeks of 18/9; 26/09; 3/10; 10/10 (classes of Thursday)

Weeks of 18/9; 26/09; 10/10; 17/10 (classes of Wednesday)

Block 2: 1 point

Weeks of 24/10; 31/10; 7/11; 14/11

Block 3: 1 point

Weeks of 21/11; 28/11; 5/12; 12/12

To pass:

a) Do the project and discuss it

b) $1 + 2 + 3 \geq 9.5$

To go to the exam: $1 + 2 + 3 \geq 6.0$