

Object Oriented Programming

Syllabus: 2021/2022

- 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, 20th, until 24 O'clock – 4 points

2 - Written test, January 8th, 10:00 O'clock – 13 points

3 – Work in lab classes:

a) Weeks of 27/9 + 4/10 + 11/10; - 0.5 points;

b) Weeks of 18/10 + 25/10 + 1/11; - 0.5 points;

c) Weeks of 8/11 + 15/11 + 22/11 - 1.0 points;

d) Weeks of 29/11 + 6/12 + 13/12 - 1.0 points.

To pass:

a) Do the project and discuss it

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

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