

## **Advanced Programming Lab 25719**

In this course you will learn objected oriented programming in Java. There is a set of programming projects which must be completed at home and before the lab sessions. The lab sessions will be used for getting help from the TA and also for demonstrating your projects.

- Lab 1
  - Java installation, compilation and execution
  - Hello world
  - Data Types, Variables, Arrays
- Lab 2
  - Class and objects
  - Methods and members
- Lab 3-4
  - Inheritance
  - Overriding
  - Access modifiers
  - Package
- Lab 5-6
  - Polymorphism and abstract members
  - Encapsulation(Setter & Getter) and Interfaces
- Lab 7-8
  - Java collections
  - File IO
  - Exception
- Lab 9
  - Inner Class
  - Enumeration
  - Generics
- Lab 10-11
  - Java Threads
  - Java Sockets
- Lab 12-13
  - Android Studio setup
  - Android hello world
- Final Project