



The Hebrew University of Jerusalem

Syllabus

Introduction to Object Oriented - 67125

Last update 05-08-2022

HU Credits: 4

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Computer Sciences

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Edan Patt

Coordinator Email: edan.patt@mail.huji.ac.il

Coordinator Office Hours: coordinated via email

Teaching Staff:

Dr. roy schwartz,
Mr. lior forer,
Ms. Rachel Behar,
Mr. omri benbenisty,
Ms. noa viner,
Mr. Ori levi,
Mr. EREL DEBEL,
Ms. esther shizgal

Course/Module description:

In this course we will learn object oriented design patterns using Java

Course/Module aims:

1. Learning OOP principles
2. Learning Java
3. Learning advanced coding skills
4. Practicing algorithms via code

Learning outcomes - On successful completion of this module, students should be able to:

Understanding and having the ability to program using advanced OOP principles

Attendance requirements(%):

0

Teaching arrangement and method of instruction:

Course/Module Content:

Java: javadoc, debugging, collections, generics, exceptions, streams, nested classes

OOP: classes, objects, constructors, static/non-static members, inheritance, overloading, interfaces, polymorphism, encapsulation.

OOP principles: writing modular code, design patterns

Regex

Basic algorithmic programming

Functional Programming

Required Reading:

NA

Additional Reading Material:

NA

Course/Module evaluation:

End of year written/oral examination 60 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 35 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 5 %

Completing Website Tasks

Additional information: