



The Hebrew University of Jerusalem

Syllabus

Introduction to Object Oriented - 67125

Last update 17-12-2023

HU Credits: 4

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Computer Sciences

Academic year: 0

Semester: 1st and/or 2nd Semester

Teaching Languages: Hebrew

Campus: E. Safra

Course/Module Coordinator: Dr. Rachel Behar

Coordinator Email: rachel.beharharr@mail.huji.ac.il

Coordinator Office Hours: coordinated via email

Teaching Staff:

Mr. Jonathan Weiss,
Ms. Mika Littor,
Mr. Yoseph Dayani,
Mr. Elkana Tovey,
Mr. omri benbenisty,
Dr. Rachel Behar,
Ms. Karin Vashdi

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

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

Functional Programming

Required Reading:

NA

Additional Reading Material:

NA

Grading Scheme:

Written / Oral / Practical Exam 50 %

Submission assignments during the semester: Exercises / Essays / Audits / Reports
/ Forum / Simulation / others 50 %

Additional information: