



# *The Hebrew University of Jerusalem*

## *Syllabus*

### *JAVA PROGRAMMING - 55419*

*Last update 20-09-2015*

*HU Credits: 3*

*Degree/Cycle: 1st degree (Bachelor)*

*Responsible Department: business administration*

*Academic year: 0*

*Semester: 1st Semester*

*Teaching Languages: Hebrew*

*Campus: Mt. Scopus*

*Course/Module Coordinator: Hilla MOshieff*

*Coordinator Email: [hila.mo@mail.huji.ac.il](mailto:hila.mo@mail.huji.ac.il)*

*Coordinator Office Hours: Mondays 8:45-9:30 at the Computer farm*

*Teaching Staff:*

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Ms. Hila Moshieff

Course/Module description:

The course teaches basic programming in JAVA, Introduction to Object Oriented Programming and simple algorithms for problem solving.

Course/Module aims:

The course teaches programming fundamentals and object-oriented programming principles, implemented with the Java programming language.

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

Understand and write basic programs in Java including debugging and correcting errors.

Attendance requirements(%):

None

Teaching arrangement and method of instruction: Lectures will be conducted in the computer farms, examples will be displayed and students will be able to experiment with writing small programs.

An exercise will be given every week. At least 8 of the given exercises must be submitted in order to be eligible for a course grade.

Course/Module Content:

The Netbeans environment  
The structure of Java Applications Programs,  
Classes and methods  
input and output  
Variable types  
Assignments  
Control structures: Decisions and Loops  
Object-oriented programming and objects  
Arrays  
Strings  
Files  
Sets

Required Reading:

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None

Additional Reading Material:

"Java 5" by Dr. Nurit Barak, Academion

"Java How to Program"

Deitel&Deitel, sixth Edition, Prentice Hall

Grading Scheme:

Additional information:

The final grade will be determined by the student's test score at the end of the course. To take the test, the students must submit, on time, at least 8 of the exercises that will be given during the course.