האוניברסיטה העברית בירושלים דאוניברסיטה העברית בירושלים



Introduction to Programming - 52304

Last update 16-09-2020

<u>HU Credits:</u> 4

Responsible Department: Statistics

<u>Academic year:</u> 0

<u>Semester:</u> 1st Semester

Teaching Languages: Hebrew

Campus: Mt. ScopusMt. Scopus

Course/Module Coordinator: Mr. Inon Kaplan

Coordinator Email: inonkp@gmail.com

Coordinator Office Hours: Sunday 13:00

<u>Teaching Staff:</u> Mr. Inon Kaplan, Mr. Matan Bendak

Course/Module description:

The course will cover the fundamental of programming using the Python Language. Emphasis will be placed on solving coding challenges using clear and efficient code.

Course/Module aims:

To provide the student with basic programming tools that will enable coping with probabilistic and statistical challenges that require computational power.

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

Implement basic programming principles, solve basic programming tasks using, cope with computational tasks, understand and debug code

Attendance requirements(%):

0

Teaching arrangement and method of instruction:

Course/Module Content:

- Objects
- Conditional statements and loops
- Functions
- Optimization
- Simulations
- Solving problems

<u>Required Reading:</u> None

Additional Reading Material:

Guttag, John. Introduction to Computation and Programming Using Python: With Application to Understanding Data

Course/Module evaluation: End of year written/oral examination 45 % Presentation 0 % Participation in Tutorials 0 % Project work 0 % Assignments 45 % Reports 0 % Research project 0 % Quizzes 10 % Other 0 %

Additional information:

7 programming exercises will account for 45% of the grade. There will be weekly quizzes which will comprise 10% of the final grade. The final exam will account for the other 45%.

To pass the course, a passing grade is needed in the final exam.