



## *The Hebrew University of Jerusalem*

### *Syllabus*

### *Python the practical aspect - 6130*

*Last update 20-10-2020*

*HU Credits: 2*

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

*Responsible Department: Cognitive and Brain Sciences*

*Academic year: 0*

*Semester: 2nd Semester*

*Teaching Languages: Hebrew*

*Campus: Mt. Scopus*

*Course/Module Coordinator: Mr. Nitzan Guy*

*Coordinator Email: [nitzan.guy@mail.huji.ac.il](mailto:nitzan.guy@mail.huji.ac.il)*

*Coordinator Office Hours:*

*Teaching Staff:*

---

Mr. Nitzan Guy

Course/Module description:

A basic Python course. In the course we will learn how to convert algorithms to Python code and learn few useful packages for mathematical calculations.

Course/Module aims:

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

At the end of the course, the students will know how to program in Python language at a level that allows them to convert algorithms into Python code.

Attendance requirements(%):

Teaching arrangement and method of instruction:

Course/Module Content:

- 1) Advanced programming  
OOP
- 2) Performing and programming mathematical calculations
- 3) Useful python modules  
(For example: numpy, pandas and scipy)
- 4) Graphs and simple experiments programming.
- 5) data analysis and simulations
- 7) Model analysis and networks.

Required Reading:

(will be updated in the future)

Additional Reading Material:

Course/Module evaluation:

---

*End of year written/oral examination 50 %*  
*Presentation 0 %*  
*Participation in Tutorials 0 %*  
*Project work 0 %*  
*Assignments 0 %*  
*Reports 0 %*  
*Research project 0 %*  
*Quizzes 0 %*  
*Other 50 %*  
*home exam*

*Additional information:*

*\* The final exam in 2021 will be a home exam.*