האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

# *Syllabus*

# *Python the practical aspect - 6130*

*Last update 19-04-2020*

*HU Credits:* *2*

*Responsible Department:* *Cognitive Science*

*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*

*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 50 %*

*Reports 0 %*
*Research project 0 %*
*Quizzes 0 %*
*Other 0 %*

*Additional information:*
** The final exam in 2020 will be take-home exam*