



The Hebrew University of Jerusalem

Syllabus

PYTHON 1 - 71250

Last update 23-09-2022

HU Credits: 3

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: agro informatics

Academic year: 0

Semester: 1st and/or 2nd Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Aleks Danov

Coordinator Email: aleks.danov@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Ms. Ayana Neta,
Ms. Aleks Danov,
Ms. Hila Moshieff

Course/Module description:

Students will acquire theoretical and practical knowledge in python programming language and develop an ability to solve complex problems from different fields using python programming language.

Course/Module aims:

Introduce basic concepts from programming world, develop iterative thinking and ability to formulate programming solution and it's python implementation

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

- By the end of the course students will
- a. identify problems that have programming solutions
 - b. express programming solution using python programming language

Attendance requirements(%):

no

Teaching arrangement and method of instruction: Zoom

Course/Module Content:

Basic concepts
Idle and Spyder environment
Python Interpreter
Scripting and Debugging
Running programs
Variables, statements, expressions,
built-in functions
Input/Output,
Strings, string functions
Program Flow:
Branching and decision making
Boolean expressions,
The if statement
Repetitions, Loops: for and while.
Defining Functions

Data Containers: sequences ,lists, tuples, dictionaries, sets
Working with text files
List Comprehension
Numpy, Pandas, matplotlib

Required Reading:
will appear in moodle

Additional Reading Material:
will appear in moodle

Course/Module evaluation:

End of year written/oral examination 90 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 10 %
Assignments 0 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:

• *The final grade is composed of the following components: Final exam, exercises, tirgul and "additional" exercises weighted as follows: Exam (80-90%), Exercises (10%), "additional" exercises (0-10% magen) Tirgul assignments (0-5 points bonus).*