Syllabus

PYTHON FOR EARTH SCIENCES - 76634

Last update 18-08-2019

<u>*HU Credits:*</u> *2*

<u>*Responsible Department:*</u> *Programming Instruction Unit*

<u>*Academic year:*</u> *0*

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

<u>*Teaching Languages:*</u> *Hebrew*

<u>*Campus:*</u> *E. Safra*

<u>*Course/Module Coordinator:*</u> *Hilla Moshieff*

<u>*Coordinator Email:*</u> [*Hilamc2@gmail.com*](Hilamc2@gmail.com)

<u>*Coordinator Office Hours:*</u> *By appointment*

<u>*Teaching Staff:*</u>
 Ms. Hila Moshieff

<u>*Course/Module description:*</u>
 Understanding computer programming, learning to program and solve problems

using python.

Course/Module aims:
  Presenting the computing principles, learning to program in Python.

Learning outcomes - On successful completion of this module, students should be able to:
  Understand computing principles and program in Python

Attendance requirements(%):
  none

Teaching arrangement and method of instruction: Frontal lectures in a computer lab, weekly programming assignments

Course/Module Content:
  Python Interpreter
Variables, statements, expressions, built-in functions
Input/Output, using files
Program execution, from a file, interpreter, compiler
Strings, string functions
Branching and decisions, Boolean expressions, if statement
Defining Functions
Data Containers, lists, tuples, dictionaries, sets
Nested Data structures, Repetitions.

Required Reading:
  none

Additional Reading Material:
  Recommended: Google python course : https://developers.google.com/edu/python/

Python official documentation:
http://www.python.org/doc/

http://interactivepython.org/courselib/static/thinkcspy/index.html
http://cscircles.cemc.uwaterloo.ca/
http://www.greenteapress.com/thinkpython/thinkpython.pdf
http://en.wikibooks.org/wiki/Think_Python

http://files.swaroopch.com/python/byteofpython_120.pdf
http://www.itmaybeahack.com/book/python-2.6/html/index.html
http://learnpythonthehardway.org/book/
http://pymbook.readthedocs.org/en/latest/

 Course/Module evaluation:
 End of year written/oral examination 100 %
 Presentation 0 %
 Participation in Tutorials 0 %
 Project work 0 %
 Assignments 0 %
 Reports 0 %
 Research project 0 %
 Quizzes 0 %
 Other 0 %

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