



Course program and reading list

Semester 4 Year 2024

School: Arison School of Business MBA

Computational thinking and introduction to programming with Python

Lecturer:

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Teaching Assistant:

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Course No.:	Course Type :	Weekly Hours :	Credit:
25221	Lecture	4	2

Course Requirements :	Group Code :	Language:
Final Exam	245252211	English



Course Description

Programming has become one of the fastest-growing topics at business schools around the world. This course is an introduction to business uses of Python for MBA students. In this course, we'll be learning how computational thinking can be used for problem solving and programming basics. We'll learn how to write simple Python code that automates tedious tasks, parses and analyzes data sets.

This course is intended for students with or without background in programming.



Course Goals

Understanding basic terms in software development and computer programming, that has become an integral part of every venture. Basic knowledge in programming and the

Python language and basic programming and data analysis skills.



Grading

30% - Home assignments

70% - Final project



Learning Outcomes

1. Communicate with programmers and developers.
 2. Write simple Python programs.
 3. Analyze data (using simple methods).
 4. Display statistical graphs.
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Lecturer Office Hours

Sunday - Sunday 18:30 or upon request

revital.hollander@runi.ac.il



Tutor Office Hours

Sunday 18:30 or upon request



Reading List

1. Python for MBAs, Mattan Griffl and Daniel Guetta, Columbia University Press, 2021.
2. Python Data Science Handbook, *Jake VanderPlas, O'reilly, 2016.*
3. Hollander R., (2019), Computational Thinking and Programming in Python, a practical learning guide.
4. Think Python, Allen B. Downey, O'reilly, 2012.
5. Programming in Python 3 A Complete Introduction to the Python Language Second Edition Mark Summerfield, Addison-Wesley, 2010.
6. Introduction to Computation and Programming Using Python, John V. Guttag, The MIT Press, 2nd Edition, 2013.
7. Introduction to Computation and Programming Using Python with Application to Understanding Data, Guttag John, MIT, 2016.
8. <https://www.python.org>.