

Introduction to Programming with Python Schedule

Lecture: 16 Oct - 20 Oct, D406

Coding Tutorial: 13:00-16:00

Monday, 16.10. Foundations of Python: Data Structures		Notebook
9:00-9:45	<i>Welcome & Overview</i> Introduction to the Python Data Science Stack and Jupyter Notebooks + logistics	-
09:45-10:30	Interactive Lecture: Introduction to Variable, Strings and Numbers	1.1
10:30-10:40	<i>Break</i>	
10:40-11:30	Interactive Lecture: Introduction to Lists and Tuples	1.2
11:30-12:00	Interactive Lecture: Introduction to if-statements	1.3
12:00-13:00	<i>Lunch</i>	
13:00-23:00	Assignment 1 (Variables, lists, if-statements)	ex_1
Tuesday, 17.10. Foundations of Python: Data Structures (contd...) and Conditional Statements [IS, A]		
09:00-10:00	Interactive Lecture: Introduction to Tuples, Advanced Lists	2.1
10:00-10:10	<i>Quiz + Break</i>	
10:10-11:30	Interactive Lecture: Introduction to Dictionaries	2.2
11:30-12:00	Interactive Lecture: Introduction to Functions	2.3
12:00-13:00	<i>Lunch</i>	
13:00-23:00	Assignment 2 (Lists, Dictionaries, conditional statements, functions)	ex_2
Wednesday, 18.10. Foundations of Python: Loops and Functions Data Exploration with Pandas		
09:00-10:00	Interactive Lecture: Functions	2.3
10:00-10:10	<i>Quiz + Break</i>	
10:10-11:00	Interactive Lecture: Introduction to Object-Oriented Programming	3.1
11:00-12:00	Interactive Lecture: Introduction to Data Exploration with Pandas	3.2
12:00-13:00	<i>Lunch</i>	
13:00-23:00	Assignment 3 (functions and pandas)	ex_3

Thursday, 19.10. Data Preprocessing and Collection		
09:00-10:00	Interactive Lecture: Introduction to Data Preprocessing with Pandas	4.1
10:00-10:10	<i>Quiz + Break</i>	
10:10-11:15	Interactive Lecture: Introduction to Data Collection	4.2
11:15-12:00	Interactive Lecture: Data Collection	4.2
12:00-13:00	<i>Lunch</i>	
13:00-23:00	Assignment 4 (pandas + data collection)	ex_4
Friday, 20.10. Data Visualizations		
09:00-10:00	Interactive Lecture: Introduction to Data Visualization	5.1
10:00-10:10	<i>Quiz + Break</i>	
10:10-11:45	Interactive Lecture: Data Visualization	5.1
11:45-12:00	Wrap-up	
12:00-13:00	<i>Lunch</i>	
13:00-23:00	Assignment 5 (data viz)	ex_5
13:00-23:00 (+ 2 days)	Mini-project (everything)	mini_project