

Course schedule DAT171 VT20

(version 2020-01-23)

L = Lectures, CS = Computer session

Monday lectures are held in HA3 and the computer sessions in ES61+ES62. Thursday lectures are held in HA2 and the computer sessions in ES61+ES62. Friday computer sessions are held in E-Studion and MT0 (MT0 if needed only).

Date			Time		Contents
Mon	W1	20/1	13-17	L1/CS	General course information Introduction to Python: Software installation and documentation. Introduction to Python, IPython, PyCharm, terminology Practice problems for the computer session, see “Simple Practice Problems” in Canvas, or examples in the sections below: [1]: 1.3-1.6, 2.1-2.4, 3.* [2]: Section 1, 2 and 3, 6.1, 6.4.1
Thu	W1	23/1	8-12	L2/CS	Python syntax: Conditionals, loops, functions, lists, sets, dictionaries. Importing libraries and namespaces. Practice problems for the computer session, see “Simple Practice Problems” in Canvas, or examples in the sections below: [1] 1.6, 2.1-2.2, 3, 4, 5, 6, 8 [2] 3, 4, 5
Fri	W1	24/1	13-15	L2+	Extra lecture: Question, examples (in room HA3)
Mon	W2	27/1	13-17	L3/CS	Text: Files and string parsing, printing and formatting. Data structures: NumPy Review of computer assignment 1 [1]: 2.4, 2.5.3, 7.1 - 7.4 [4]
Thu	W2	30/1	8-12	L4/CS	More data structures: More NumPy, Matplotlib [4], [5]
Fri	W2	31/1	13-15	CS	
Mon	W3	3/2	13-17	L5/CS	SciPy: Trees, sparse graph/matrix [4]
Thu	W3	6/2	8-12	L6/CS	Writing libraries Namespaces, Documentation
Fri	W3	7/2	13-15	CS	
Sun	W3	9/2			Assignment 1 deadline
Mon	W4	10/2	13-17	L7/CS	Review of computer assignment 2 Object oriented programming: Instances, constructors and destructors
Thu	W4	13/2	8-12	L8/CS	Object oriented design Inheritance, polymorphism, abstract methods, super , static methods decorators
Fri	W4	14/2	13-15	CS	
Mon	W5	17/2	13-17	L9/CS	More on classes: Iterators, Operator overloading
Thu	W5	20/2	8-12	L10/CS	Exceptions: try, raise, except, finally
Fri	W5	21/2	13-15	CS	
Sun	W5	23/2			Assignment 2 deadline

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Mon	W6	24/2	13-17	L11/CS	Review of computer assignment 3 Introduction to interactive software Simple GUI: PyQt, Widgets, layouts
Thu	W6	27/2	8-12	L12/CS	More GUI: Complex software Model+View
Fri	W6	28/2	13-15	CS	
Mon	W7	2/3	13-17	L13/CS	Even more GUI: Signals, example Model+View designs
Thu	W7	5/3	8-12	L14/CS	Backup lecture GUI
Fri	W7	6/3	13-15	CS	
Sun	W7	8/3			Assignment 3 deadline
Mon	W8	9/3	13-17	L15/CS	Repetition and questions
Thu	W8	12/3	8-12	L16/CS	Review of example exam
Fri	W8	13/3	13-15	CS	
Tue	W9	17/3			Final exam