Tidsplanering ht 2017

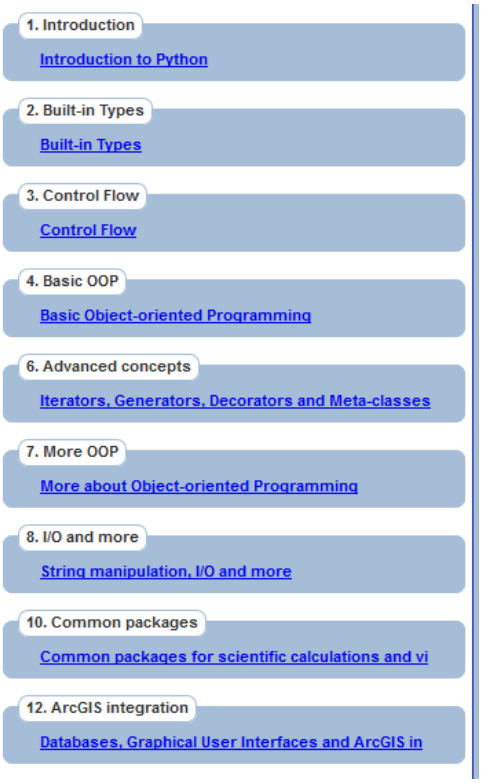
5 hp motsvarande 3.33 veckor heltid = 9 övningar → knappt 3 övningar/vecka i snitt på heltid för nybörjare i programmering...

EXTP40 – LTH 7.5 hp på teoretiskt total 11 veckor vara EN vecka inte är studietid. I praktiken är betydligt mindre...:

Vecka	Dag	VAD	HUR
44	Tisdag	Kursstart	Möte m Karin
45	Onsdag	Projektintroduktion	Möte m alla
46	Tisdag-Onsdag	1) Grov designskiss: visar ungefärligt utseende, vad som ska finnas i menyerna etc.	Skicka via mail eller ?
47		2) Systemskiss: Beskriver programmets struktur i form av subrutiner och interna logik.	
48			
49		3) Preliminär version: Visar första implementering som visar att programmet huvudsakligen fungerar, t.ex. för visning av bilder.	
50			
51	Sönd. = 24/12	Inläsningsvecka (Josefin borta)	
52		Inläsningsvecka (3 dagar)	
1 Tenta-vecka		4) Slutversion: fullt dokumenterad kod med slutlig funktionalitet.	
2 Tenta-vecka		5) Slutrapport och muntlig redovisning.	

Översikt Distansövningar

1. Introduction - Introduction to Python
2. Built-in Types - Built-in Types
3. Control Flow - Control Flow
4. Basic OOP
5. Modules & packages - Modules, packages and more – Titta på
6. Advanced concepts - Advanced concepts - Iterators, Generators, Decorators and Meta-classes Bara Task 3
7. More OOP - More about Object-oriented Programming
8. I/O and more - String manipulation, I/O and more – Titta på och gör Task 6
9. Programming Tools - Programming Tools - Testing, Debugging, Profiling and Documentation – Titta på
10. Common packages - Common packages for scientific calculations and visualization
11. Interfacing - Interfacing with other languages and optimizing performance
12. ArcGIS integration - Databases, Graphical User Interfaces and ArcGIS integration Efter behov beroende på projekt



Gulmarkerat = GÖR – DOCK anpassa efter varje års projekt!

1. Introduction - Introduction to Python

Lecture 1 - Video lecture URL
Lecture 1 File
Exercise 1 - Video Lecture URL
Exercise 1 - Compulsory File
Source code for lecture 1 (updated 2012-10-21) File
Source code for exercise 1 (updated 2012-10-20) File
Data used in the course File
Book references for lecture 1 (updated 2013-01-16) File

2. Built-in Types - Built-in Types

Lecture 2 - Video lecture - Part 1 URL
Lecture 2 - Video Lecture - Part 2 URL
Lecture 2 File
Exercise 2 - Compulsory File
Help for exercise 2 File
Exercise 2 - Recommended extra exercises File
Source code for lecture 2 File
E02 Source code - Compulsory File
E02 Source code - Recommended File
E02 Source code - Recommended extra exercises (Solutions) File
Book references for lecture 2 (updated 2013-01-16) File

3. Control Flow - Control Flow

Lecture 3 - Video Lecture - Part 1 URL
Lecture 3 - Video Lecture - Part 2 URL
Lecture 3 File
Exercise 3 - Compulsory File
Help for exercise 3 File
Exercise 3 - Recommended extra exercises File
Source code for lecture 3 File
E03 Source code - Compulsory File
E03 Source code - Recommended File
E03 Source code - Recommended extra exercises (Solutions) File
Book references for lecture 3 (updated 2013-01-16) File

4. Basic OOP

Basic Object-oriented Programming
Lecture 4 - Video Lecture - Part 1 URL
Lecture 4 - Video Lecture - Part 2 URL
Lecture 4 File
Exercise 4 Compulsory updated 2014-09-24 File
Help for exercise 4 File
Source code for exercise 4 - Compulsory File
Exercise 4 Recommended extra exercise File
Source code for E04 Recommended extra exercise File
Source code for lecture 4 (updated 2012-10-13) File
Book references for lecture 4 (updated 2013-01-16) File

5. Modules & packages - Modules, packages and more – Titta på

There are no exercises in this module but make sure to watch the video lecture and follow the reading instructions.

Lecture 5 - Video Lecture - Part 1 URL
Lecture 5 - Video Lecture - Part 2 URL
Lecture 5 File
Source code for lecture 5 (updated 2012-10-13) File
Book references for lecture 5 (updated 2013-01-16) File

6. Advanced concepts - Advanced concepts - Iterators, Generators, Decorators and Meta-classes Bara Task 3

Lecture 6 - Video Lecture URL
Lecture 6 File
Exercise 6 - Compulsory File
Exercise 6 - Recommended extra exercises File
Source code for lecture 6 (updated 2012-10-13) File
E06 Source code - Compulsory File
E06 Source code - Recommended File
E06 Source code - Recommended extra exercises (Solutions) File
Book references for lecture 6 (updated 2013-01-16) File

7. More OOP - More about Object-oriented Programming

Lecture 7 - Video Lecture - Part 1 URL
Lecture 7 - Video Lecture - Part 2 URL
Lecture 7 File
Exercise 7 (updated 2012-12-05) File
Source code for lecture 7 (updated 2012-10-15) File
Source code for exercise 7 (updated 2012-10-27) File
Book references for lecture 7 (updated 2013-01-16) File

8. I/O and more - String manipulation, I/O and more – Titta på och gör Task 6

Lecture 8 - Video Lecture - Part 1 URL
Lecture 8 - Video Lecture - Part 2 URL
Lecture 8 - Video Lecture - Part 3 URL
Lecture 8 File
Exercise 8 - Compulsory File
Exercise 8 - Recommended extra exercises File
Source code for lecture 8 File
Source code for exercise 8 File
E08 Source code - Recommended extra exercises (Solutions) File
Java program for gluing computations File
Book references for lecture 8 (updated 2013-01-16) File

9. Programming Tools - Programming Tools - Testing, Debugging, Profiling and Documentation – Titta på

N.B. You should not hand in the exercise in this module.

Lecture 9 - Video Lecture - Part 1 URL
Lecture 9 - Video Lecture - Part 2 URL
Lecture 9 (updated 2012-11-01) File
Exercise 9 (updated 2012-12-12) File
Source code for lecture 9 (updated 2012-11-01) File
Source code for exercise 9 (updated 2012-12-12) File
Sphinx material for lecture 9 (updated 2012-10-31) File
Book references for lecture 9 (updated 2013-01-16) File

10. Common packages - Common packages for scientific calculations and visualization

Lecture 10 - Video Lecture - Part 1 URL
Lecture 10 - Video Lecture - Part 2 URL
Lecture 10 (updated 2012-12-21) File
Exercise 10 - Compulsory File
Exercise 10 - Recommended extra exercises File
Source code for lecture 10 File
E10 Source code - Recommended extra exercises File
E10 Source code - Recommended extra exercises (Solutions) File
Veusz scripts File
Book references for lecture 10 (updated 2013-01-16) File

11. Interfacing - Interfacing with other languages and optimizing performance

N.B. This whole module is optional, including the exercise.

Lecture 11 - Video Lecture - Part 1 URL
Lecture 11 - Video Lecture - Part 2 URL
Lecture 11 - Video Lecture - Part 3 URL
Lecture 11 (updated 2012-11-12) File
Installation instructions for this module File
Exercise 11 - optional (updated 2012-10-29) File
Source code for lecture 11 (Eclipse) (updated 2012-11-12) File
Source code for lecture 11 (External) (updated 2012-11-07) File
Source code for exercise 11 File
Book references for lecture 11 (updated 2013-01-16) File

12. ArcGIS integration - Databases, Graphical User Interfaces and ArcGIS integration Efter behov beroende på projekt

Lecture 12 - Video Lecture - Part 1 URL
Lecture 12 - Video Lecture - Part 2 URL
Lecture 12 - Video Lecture - Part 3 URL
Lecture 12 - Video Lecture - Extra material (optional) URL
Lecture 12 (updated 2012-11-17) File
Lecture 12 - Extra material (updated 2012-11-24) File
Exercise 12 - Compulsory File
Source code for lecture 12 (updated 2012-11-24) File
Book references for lecture 12 (updated 2013-01-16)