

PYTHON ESSENTIAL-A

ADVANCED LEVEL

Sessions : 10 × 2 hours

Prerequisite : Intermediate Understanding of Programming

Time: Fall 2020

Instructor : Pedram Agand

Profile : PhD student Computer Science Simon Fraser University



Agenda:

Topic	Description	Session
Getting Started	Run, debug, console, IDE	Session 1
Anatomy	OOL, Blocks, script vs code, Type	Session 2
Condition, loop	Syntax, Conditional Operator and assignment, operator	Session 3
Functions	Definition and arguments, Generator, decorator	Session 4
Classes	Constructor, method, object, inheritance	Session 5
Structure data	List, Tuple, Dictionary, set, mixed structure, string	Session 6
String object	Overview, Formatting, splitting, joining	Session 7
Modules	Standard module, create, parallelism, Json	Session 8
Packages	Pip, Numpy, Future, OpenCV, Tensor flow, Pytorch, PIL	Session 9
Web	Django, Pyramid, Flask, Web2py	Session 10

FAQ:

For whom this workshop is suitable for?

For anyone who is interested to get deep understanding of programming Python while they know the basic concept of any programming language before.

How does this program work?

There are 10 online sessions through Zoom application, that you will learn to start coding python in an interactive manner with weekly assignments and two projects.

What do you need to start?

To start, you just need a computer (PC or laptop) with any Operating system and an internet access. The class would cover the process of installing and starting from scratch.

What are you expect to do after this program?

After this program, it is expected that you have more hands-on experience of Python programming and conduct real project or enrol in advance level program.