

# PYTHON ESSENTIAL-I INTERMEDIATE LEVEL

**Sessions :** 10 × 2 hours

**Prerequisite :** Basic 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	Syntax, Conditional Operator and assignment, operator	Session 3
Loops	While loop, for loop	Session 4
Function 1	Definition and arguments	Session 5
Function 2	Generator, decorator	Session 6
Structure data	List, Tuple, Dictionary, set, mixed structure	Session 7
Classes	Constructor, method, object, inheritance	Session 8
String object	Overview, Formatting, splitting, joining	Session 9
Modules	Standard module, create	Session 10

## FAQ:

### For whom this workshop is suitable for?

For anyone who is interested to start 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 biweekly assignments.

### 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 ready to start your first project or enrol in advance level program.