

Detailed Content:

Module 1 Introduction	Getting started with Python Who uses Python? Why to use Python? Python 2.x vs python 3.x Python Installation Adding python as environmental variable Adding pip as environmental variable Basic Python 3 Syntax writing Primitive Data Structures - Integers - Float - Strings - Boolean - Complex Multiple operations on strings
Module 2 Data Structures and Operators	Non-Primitive Data Structures - Lists - Tuples - Dictionary - Sets Operations in python - Arithmetic Operators - Assignment Operators - Comparison Operators - Logical Operators Data Type conversions
	Assignment 1
Module 3 Control Flow	Taking input form user using input function If else For Loop List comprehension While Loop Continue Break Pass Generators in Python

Full Stack Python Programming Hybrid Course 120 Hours



	Practice Activity on mini projects
Module 4 Functions in python	Functions in Python Return a value Default Arguments Keyword and Positional Arguments Documentation Strings *arg and **arg Lambda Function Standard predefined functions – sum, max, min etc
Module 5 Object-Oriented Programming Basics	Introduction to Object Oriented Programming Class coding basics Creating objects Self Argumentsinit() methodmain() method super instance

Assignment 2

Module 6 Object Oriented Programming	OOP and Inheritance Inheritance Function overloading operator overloading Examples and Practice Using python code as a package
Module 7	Installing packages in python
Packages – os, datetime,	Opening a File
random	Reading from a file, writing to a file
5 2	Closing a File
Duration: 2 Hours	Working with os package
	Reading directories & other basic directory operations (getcwd, mkdir, chdir etc.)
	Renaming & deleting files
	Working with datetime package

Assignment 3

Full Stack Python Programming Hybrid Course 120 Hours



Module 8 Practice Session	Practice with Data structures and Control Flow Practice examples for Functions in Python Object Oriented Programming Practicing with functions and packages in python Do's and Don'ts with python programming Further learning suggestions
Module 9 Project	Project 1 - Objective - Writing Codes Project 2 - Objective - Writing codes

Thanks & Regards

ElectroCloud Labs