



TRAINING ON PYTHON

DURATION: 26 Weeks

Contents:

MODULE	TOPICS	Duration
I	<i>Introduction to Python</i>	<i>4 weeks</i>
1	Overview of language, Features, Installation	
2	Python Basics: Variable, Data types, Strings, Operators & Expressions etc.	
3	Control Flow: Loops & Selection Statements, Input & Output, etc.	
4	Data Structures: Lists, Dictionaries, Tuples etc.	
5	Functions & Modules (List of Built in Functions: lambda, filter, map, sum, max, min, enumerate, reversed, sorted)	
6	Python Standard Library & Python External Packages	
7	Object Oriented Programming: Classes, Methods, Inheritance, Overriding, Super keyword, __private, __protected etc	
8	File Handling, Exception Handling, Unit Testing	
9	Multithreading and Socket Programming	
II	<i>Desktop Applications</i>	<i>2 weeks</i>
10	Desktop Application Development	
11	Overview of GUI frameworks	
12	Event-driven programming	
13	Python Database Programming	
III	<i>Tutorials, Case Studies & Assignments</i>	<i>2 weeks</i>
IV	<i>Web Applications</i>	<i>4 weeks</i>
14	Django Web Framework	
15	MVC Architecture	
16	URL, Model, Template, Views	
17	Django Rest Framework	
V	<i>Project Work</i>	<i>14 weeks</i>