Contact Details:-

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Python Syllabus

1: Introduction To Python

Installation and Working with Python

Understanding Python variables

Python basic Operators

Understanding python blocks

2: Python Data Types

Declaring and using Numeric data types: int, float, complex

Using string data type and string operations

Defining list and list slicing

Use of Tuple data type

3: Python Program Flow Control Conditional

blocks using if, else and elif

Simple for loops in python

For loop using ranges, string, list and

dictionaries Use of while loops in python

Loop manipulation using pass, continue, break and else

Programming using Python conditional and loops block

4: Python Functions, Modules And Packages

Organizing python codes using functions

Organizing python projects into modules

Importing own module as well as external

modules Understanding Packages

Powerful Lamda function in python

Programming using functions, modules and external packages

5: Python String, List And Dictionary Manipulations Building

blocks of python programs

Understanding string in build methods

List manipulation using in build methods

Dictionary manipulation

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Programming using string, list and dictionary in build functions

6: Python File Operation Reading
config files in python
Writing log files in python
Understanding read functions, read(), readline() and readlines()
Understanding write functions, write() and writelines()
Manipulating file pointer using seek
Programming using file operations

7: Python Object Oriented Programming – Oops Concept
of class, object and instances
Constructor, class attributes and destructors
Real time use of class in live projects
Inheritance , overlapping and overloading operators
Adding and retrieving dynamic attributes of classes
Programming using Oops support

8: Python Regular Expression
Powerful pattern matching and searching Power
of pattern searching using regex in python
Real time parsing of networking or system data using regex
Password, email, url validation using regular expression
Pattern finding programs using regular expression

9: Python Exception Handling
Avoiding code break using exception handling
Safe guarding file operation using exception handling
Handling and helping developer with error code
Programming using Exception handling

10: Python Database Interaction Including MongoDB
SQL Database connection using python
Creating and searching tables
Reading and storing config information on database
Programming using database connections

11: Python Multithreading
Understanding threads
Forking threads
Synchronizing the threads
Programming using multithreading

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12: Contacting User Through Emails Using Python Installing
smtp python module
Sending email
Reading from file and sending emails to all users addressing
them directly for marketing

13: Python CGI Introduction
Writing python program for CGI applications
Creating menus and accessing files
Server client program