TECHNO EXPERT SOLUTIONS

AN INSTITUTE FOR SPECIALIZED STUDIES!

Techno
Expert Solutions

Python Syllabus

Core Python

Introduction

- ✔ History
- ✔ Features
- ✔ Setting up path
- ✔ Working with Python
- ✔ Basic Syntax
- ✔ Variable and Data Types
- ✔ Operator

Conditional Statements

- ✔ If
- ✔ If- else
- ✔ Nested if-else

Looping

- ✔ For
- ✔ While
- ✔ Nested loops

Control Statements

- ✔ Break
- ✔ Continue
- ✔ Pass

String Manipulation

- ✔ Accessing Strings
- ✔ Basic Operations
- ✔ String slices
- ✔ Function and Methods

Lists

✔ Introduction
✔ Accessing list
✔ Operations
✔ Working with lists
✔ Function and Methods

Tuple

✔ Introduction
✔ Accessing tuples
✔ Operations
✔ Working
✔ Functions and Methods

Dictionaries

✔ Introduction
✔ Accessing values in dictionaries
✔ Working with dictionaries
✔ Properties
✔ Functions

Functions

✔ Defining a function
✔ Calling a function
✔ Types of functions
✔ Function Arguments
✔ Anonymous functions
✔ Global and local variables

Modules

✔ Importing module
✔ Math module
✔ Random module
✔ Packages
✔ Composition

Input-Output

✔ Printing on screen
✔ Reading data from keyboard
✔ Opening and closing file
✔ Reading and writing files
✔ Functions

Exception Handling

✔ Exception
✔ Exception Handling
✔ Except clause
✔ Try ? finally clause
✔ User Defined Exceptions

Advance Python

OOPs concept

✔ Class and object
✔ Attributes
✔ Inheritance
✔ Overloading
✔ Overriding
✔ Data hiding

Regular expressions

✔ Match function
✔ Search function
✔ Matching VS Searching
✔ Modifiers
✔ Patterns

CGI

✔ Introduction
✔ Architecture

- ✔ CGI environment variable
- ✔ GET and POST methods
- ✔ Cookies
- ✔ File upload

Database

- ✔ Introduction
- ✔ Connections
- ✔ Executing queries
- ✔ Transactions
- ✔ Handling error

Networking

- ✔ Socket
- ✔ Socket Module
- ✔ Methods
- ✔ Client and server
- ✔ Internet modules

Multithreading

- ✔ Thread
- ✔ Starting a thread
- ✔ Threading module
- ✔ Synchronizing threads
- ✔ Multithreaded Priority Queue

GUI Programming

- ✔ Introduction
- ✔ Tkinter programming
- ✔ Tkinter widgets