Python Syllabus

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

OOPs concept

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

MySQL

✔ Introduction
✔ SQL Commands
✔ Types of SQL Commands
✔ Creating Database
✔ Unsolved Exercises

Database

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

Data Visualisation

✔ Introduction
✔ Plotting of Charts
✔ Bar Chart
✔ Line Chart
✔ Histogram

Data Handling using Pandas

✔ Introduction
✔ Pandas Library
✔ Series
✔ Data Frames
✔ Numpy