

## **Python Syllabus**

### **Syllabus - Core Python**

- Introduction of Python
- Installing Python IDEs – Python IDLE and Anaconda
- Writing Your First Python Program
- Data-types in Python
- Variables in Python – Declaration and Use
- Typecasting in Python
- Operators in Python – Assignment, Logical, Arithmetic etc.
- Taking User Input (Console)
- Conditional Statements – If else and Nested If else and elif
- Python Collections (Arrays) – List, Tuple, Sets and Dictionary
- Loops in Python – For Loop, While Loop & Nested Loops
- String Manipulation – Basic Operations, Slicing & Functions and Methods
- User Defined Functions – Defining, Calling, Types of Functions, Arguments
- Lambda Function
- Importing Modules – Math Module

### **Syllabus - Object Oriented Programming in Python**

- Basics of Object Oriented Programming
- Creating Class and Object
- Constructors in Python – Parameterized and Non-parameterized
- Inheritance in Python
- In built class methods and attributes
- Multi-Level and Multiple Inheritance
- Method Overriding and Data Abstraction
- Encapsulation and Polymorphism

This course is for those professionals who want to learn python for software development, web development and data analysis.

If you don't have fundamental knowledge of python, you cannot start software development, web development and data analysis.

Python is a free and open source programming language that is really easy to learn. Python is used in many applications and it has a potential of generating jobs. You should start learning python today.

Learn Core and Advanced Python programming with SQLITE3 and MySQL Database Administration; Create Software / Web Applications.