

# Python Course Content

## 1. Basics of Python

- Introduction to Python
- Python Coding Instructions
- Naming Conventions in Python
- Variables in Python
- Data Types in Python
- Operators in Python
- Input and Output in Python
- Control Flow Statements in Python
- Looping Statements in Python
- Strings in Python

## 2. Functions, Modules & Packages

- Functions in Python
- Types of Function Arguments in Python
- Types of Variables in Python
- Recursive and Lambda Functions in Python
- Decorators and Generators in Python
- Modules and Packages in Python

## 3. Python – Data Structure

- Lists in Python
- Tuples in Python
- Sets in Python
- Dictionary in Python

## 4. Python – Object Oriented Programming

- OOPs in Python
- Constructors in Python
- Types of Variables in a Class in Python
- Types of Methods in a Class in Python
- Inheritance in Python
- Super Function in Python
- Polymorphism in Python
- Abstract classes in Python
- Interfaces in Python

## 5. Python – Exception Handling & Files

- Exception Handling in Python
- Finally Block in Python
- Nested try-except-finally blocks in Python

- Custom Exception in Python

## **6. Regular Expressions & Logging**

- Regular Expressions in Python
- Regular Expression Methods in Python

## **7. Python – Multithreading**

- Multithreading in Python
- Methods of Thread class in Python