



Certification in Core Python Programming Language

Syllabus

Duration: 40 Hours

1. Introduction

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

2. Conditional Statements

- If
- If- else
- Nested if-else

3. Looping

- For
- While
- Nested loops

4. Control Statements

- Break
- Continue
- Pass

5. String Manipulation

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

6. Lists

- Introduction
- Accessing list
- Operations
- Working with lists





- **Function and Methods**

7. Tuple

- **Introduction**
- **Accessing tuples**
- **Operations**
- **Working**
- **Functions and Methods**

8. Dictionaries

- **Introduction**
- **Accessing values in dictionaries**
- **Working with dictionaries**
- **Properties**
- **Functions**

9. Functions

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

10. Modules

- **Importing module**
- **Math module**
- **Random module**
- **Packages**
- **Composition**

11. Input-Output

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

12. Exception Handling

- **Exception**
- **Exception Handling**



- **Except clause**
- **Try ? finally clause**
- **User Defined Exceptions**

13.Project Work

14.Placement Assistance Sessions

- **Mock Interviews**
- **GDs**
- **Preplacement Talks**
- **Industry Exposer Sessions**

15.Internship

