

Python Course Content

Overview: Python is a widely used high-level, general-purpose, interpreted, dynamic programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java. The language provides constructs intended to enable writing clear programs on both a small and large scale.

Session 1: INTRODUCTION TO PYTHON

- Introduction to python
- Writing Simple Programs

Session 2: Geometry Basics

- Discuss How Python Program runs
- Types and Operation in python
 1. Numbers
 2. String
 3. List and Tuples
 4. Dictionaries
 5. Files
 6. Statements and Syntax
 7. Assignments ,Expressions and Print Statements
 8. Conditional Construct
 9. Iterative Construct

Session 3:

- Introduction to Functions and Lambda Forms
- Functions and Arguments and Scope
- List Comprehensions
- Generators

Session 4:

- Understanding Modules in Python
- Module Packages
- Package import
- Mixed usage modes
- Introduction to OO Programming in python
- Class coding basic
- OOP and inheritance
- New styles Classes

Session 5:

- Projects
- Query
- Certificate Distribution