

Python Programming 4(3+1) Weeks Program

> SESSION 01

Introduction
Why do we need Python?
Program structure
How to Install Python
Execution steps
Interactive Shell
Executable or script files
User Interface or IDE
Creating Your First Python Program

> SESSION 02

Memory management and Garbage collections Object creation and deletion Object properties Data Types and Operations Numbers Strings

> SESSION 03

List Tuple Dictionary Other Core Types Statements



> SESSION 04

Statements and Syntax Assignments, Expressions and prints If tests and Syntax Rules While and For Loops Iterations and Comprehensions

> SESSION 05

File Operations
Opening a file
Using Files
Other File tools
Functions
Function definition and call
Function Scope
Arguments
Function Objects

> SESSION 06

Modules and Packages Module Creations and Usage Module Search Path Package Creation and Importing

> SESSION 07

Classes
Classes and instances
Classes method calls
Inheritance
Static and Class Methods
Bound and Unbound Methods
Operator Overloading
Polymorphism

> SESSION 08

Exception Handling
Default Exception Handler
Catching Exceptions
Raise an exception
User defined exception

> SESSION 09

Python Check If File or Directory Exists
Python COPY File using shutil.copy()
Python Rename File and Directory using os.rename()
Python ZIP file with Example

> SESSION 10

Accessing Internet Data with Python Manipulating XML with Python

> SESSION 11

Project Work & Application.