



Python Training Syllabus

Session 1: Introduction

-) Why do we need Python?
-) Program structure

Execution steps

-) Interactive Shell
-) Executable or script files
-) User Interface or IDE

Session 2: Memory management and Garbage collections

-) Object creation and deletion
-) Object properties

Data Types and Operations

-) Numbers
-) Strings
-) List
-) Tuple
-) Dictionary
-) Other Core Types

Session 3: Statements and Syntax

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

Session 4: File Operations

-) Opening a file
-) Using Files
-) Other File tools

Session 5: Functions

-) Function definition and call
-) Function Scope
-) Arguments



-) Function Objects
-) Anonymous Functions

Session 6: Modules and Packages

-) Module Creations and Usage
-) Module Search Path
-) Module Vs. Script
-) Package Creation and Importing

Session 7: Classes

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

Session 8: Exception Handling

-) Default Exception Handler
-) Catching Exceptions
-) Raise an exception
-) User defined exception