Python Syllabus

Core Python

Time : 30 Days( for daily) or weekend ( 5 weekends)

Class Duration: 1.5 hours

Cource Objective :

* Master in Python programing language
* Understand Python Scripts on UNIX/Windows,Python Editors and IDEs
* Master the Concepts of Sequences and File operations
* Learn how to use and create functions,sorting different elements ,Lambda function,error handling techniques and Regular expressions ans using modules in Python
* How to use python in realtime project and sample projects

Cource Syllabus :

Introduction

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

Conditional Statements

* If
* If- else
* Nested if-else
* Examples

Looping

* For
* While
* Nested loops
* Examples

Control Statements

* Break
* Continue
* Pass
* Examples

String Manipulation

* Accessing Strings
* Basic Operations
* String slices
* Function and Methods
* Examples

Lists

* Introduction
* Accessing list
* Operations
* Working with lists
* Function and Methods
* Examples

Tuple

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

Dictionaries

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

Functions

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

Lambda Operator, Filter, Reduce and Map

* Lambda function
* Filter function
* Reduce function
* Map function

List Comprehension:

* Introduction
* Generator Comprehension
* Set Comprehension

Modules

* Importing module
* Math module
* Random module
* Packages
* Composition
* Examples

Input-Output

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

Exception Handling

* Exception
* Exception Handling
* Except clause
* Try ??? finally clause
* User Defined Exceptions
* Examples

Regular expressions

* Match function
* Search function
* Matching VS Searching
* Modifiers
* Patterns
* Examples

OOPS

* Class and object
* Attributes
* Inheritance
* Overloading
* Overriding
* Data hiding

Database

* Introduction
* Connections
* Executing queries
* Transactions
* Handling error

Networking

* Socket
* Socket Module
* Methods
* Client and server
* Internet modules