



Python Programming

***"CODE YOUR FUTURE, CREATE ENDLESS
POSSIBILITIES WITH PYTHON"***

SYLLABUS

Version: 1.0

About Apponix Academy

- ✦ Apponix Academy is a leading training institute offering both online and offline courses in trending technologies like Cloud Computing, DevOps, Cyber Security, Full Stack Development, Data Science, Digital Marketing, and more.
- ✦ Established in 2013, Apponix has trained over 50,000 students across India and abroad, helping them build successful careers in the tech industry.
- ✦ With centers in Bangalore, Pune, Mumbai, Hubli, Aurangabad, Tumkur, Trichy, Gwalior, Ranchi, and more, Apponix continues to expand rapidly across the country.
- ✦ All our courses are designed to be job-oriented, practical, and aligned with real-world industry requirements.
- ✦ Our training is delivered by 100+ highly experienced corporate trainers who are experts in their respective fields.
- ✦ We offer flexible learning options, allowing students to choose between classroom sessions and live online classes.
- ✦ Apponix is ISO certified and provides globally recognized certifications from AWS, Microsoft, and Google.
- ✦ Over 3,000+ Apponix alumni are successfully placed in top MNCs with salaries above ₹15 LPA.
- ✦ Our focus is on 100% hands-on learning, project-based assignments, and real-time case studies.
- ✦ We provide complete career support including resume building, interview preparation, and placement assistance.
- ✦ With a strong presence and proven track record, Apponix Academy continues to be a trusted name in professional IT training.



COURSE KEY FEATUERS



Guaranteed interviews



Designated Placement Advisor



Assured Job Placement



Interview Grooming Sessions



Classroom & Online Training



Mock interview sessions



Delivered by Industry Experts



Weekly Practice Assignments



Professional Resume building



Industry Relevant Syllabus



Awards & Accreditations



IABAC Authorized Partner



JAINx University Partner



ISO Certified



VMWARE Authorized Partner



**Most Promising
Training Institute**



MSME Certified

Sample Certificate



Python Training

Python Training course Overview

- Get the best Python training in Bangalore. Apponix is proud to say that its is one of the top Python training provider in Bangalore, we provide best training experience and results to our valued students, All our trainers are very experienced IT professionals and love to share their practical knowledge with the students.
- Python Programming Training course is designed to suit all levels of students to provide in depth knowledge about python scripting. All classes will be conducted by IT Industry experts who will guide you through out the course to leverage Python scripting to make you get ready for your dream job.
- Training in Apponix technologies mainly focuses on the present scope of python and real time requirements which will introduce a new learning experience to the newbies. The pattern of the course structure meticulously designed for beginners and professionals who wanted to start or empower their skills on Python.
- Every section of module and the code test conducts on every python concept will boost your coding skill. Real time projects like scraping a website or automating a daily repetitive tasks with your knowledge helps you to get interest and learn more. On successful completion of the course, you will step out with 100% satisfaction and knowledge to achieve your goals.
- Python training course covers an up to date and most relevant topics which are required by most of the companies, our python instructor knows very well on topics & syllabus to be covered.

Why you should learn Python Programming?

- Below are the few reasons to choose python:
- Python has very simple syntax which is easy to understand
- Millions of jobs opportunities for python developers.
- Python is the most preferred language for Artificial Intelligence, Robotics, Web Development and DevOps.
- Python is one of the most premier, flexible, and powerful open-source language that is easy to learn.
- Python is easy to use, and has powerful libraries for data manipulation and analysis.
- For more than a decade, Python has been used in scientific computing and highly quantitative domains such as finance, oil and gas, physics, and signal processing as of today.

Python Training course objectives:

Main objectives of the course are as follows:

- Write python scripts, unit test code
- Programmatically download and analyze data
- Learn techniques to deal with different types of data i.e. ordinal, categorical, encoding
- Learn data visualization

Course Duration : 40 Hours

Python Training Course Content

SECTION I

Overview

- Why do we need Python?
- Program structure

Environment Setup

- Python Installation
- Execution Types
- What is an interpreter?
- Interpreters vs Compilers
- Using the Python Interpreter
- Interactive Mode
- Running python files
- Working with Python shell
- Integrated Development Environments (IDES)
- Interactive Mode Programming
- Script Mode Programming

Basic Concepts

- Basic Operators
- Types of Operator
- Python Arithmetic Operators
- Python Comparison Operators
- Python Assignment Operators
- Python Bitwise Operators
- Python Logical Operators
- Python Membership Operators (in, not in)
- Python Identity Operators (is, is not)
- Python Operators Precedence

Data Types

- Variables
- Assigning Values to Variables
- Multiple Assignment
- Python Numbers
- Python Strings
- Accessing Values in Strings
- String Special Operators

- Accessing Values in Lists
- Updating Lists
- Delete List Elements
- Basic List Operations
- Indexing, Slicing, and Matrixes
- Built-in List Functions & Methods
- Python Tuples
- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- NEnclosing Delimiters
- Built-in Tuple Functions
- Python Dictionary
- Accessing Values in Dictionary
- Updating Dictionary
- Delete Dictionary Elements
- Properties of Dictionary Keys
- Built-in Dictionary Functions & Methods

Loops and Decision Making

- if statements
- ..else statements
- nested if statements
- while loop
- for loop
- nested loops
- Loop Control Statements
- break statement
- continue statement
- pass statement

SECTION II

Functions

- Defining a Function
- Syntax
- Calling a Function
- Pass by reference vs value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments
- The return Statement
- Scope of Variables
- Global vs. Local variables

Basic OOPs Concept

- Creating class in Python
- Documented String
- Private Identifier
- Constructor
- Inheritance
- Polymorphism

Python Modules and Packages

- Framework vs Packages
- Why are modules used?
- Creating modules
- The import Statement
- The from...import Statement
- The from...import Statement

- Locating Modules
- The PYTHONPATH Variable
- Namespaces and Scoping
- The dir() Function
- The globals() and locals() Functions
- The reload() Function
- Packages in Python

Decorator, Iterator and Generator

Anonymous Function

- Lambda
- Map
- Filter
- Reduce

SECTION III

File Manipulation

- Opening Text File
- Working with a File on Python
- The open function
- File modes
- The file object attributes
- close() method
- write() method
- read() method
- Files: Input
- Files: Output
- Reading files
- Renaming & deleting files
- Writing into file
- remove() method

Python GUI

- Basic Operations using Tkinter
- Buttons and Textbox
- Menu Bar
- Message Box and RadioButton
- Checkbox and Event Creating
- Creating Application in GUI

SQLite

- Overview of SQLite
- Integrating Python with SQLite

Project Demonstration Tkinter

- Project Demonstration Tkinter

Other Concepts

- Errors and Exception Handling
- Standard exceptions
- Assertions in Python
- The assert Statement
- What is Exception?
- Handling an exception
- Syntax
- The except Clause with NExceptions
- The except Clause with Multiple Exceptions
- The try-finally Clause
- Argument of an Exception
- Example with Tkinter Application

Advanced Concept Overviews

- Basics of Pandas and Numpy
- How to use Anaconda
- Overview of Django

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