

A Complete Guide to Learning Python Programming and Building a Successful Tech Career

Python course at Pune will take students from the beginning of programming, to advanced application development using practical projects and assignments that are real-world. At SevenMentor the program is designed to help students build an enduring programming foundation as well as prepare students for the demands of job requirements in the industry.

Core & Advanced Python

Students start with Core and Advanced Python, learning the basics of programming prior to moving on to more advanced concepts. Some of the topics covered are:

Variables and Data Types

Operators

Conditional Statements

Loops

Functions

Lambda Functions

List, Dictionary, Set & Tuple

Modules and Packages

Iterators and Generators

Object-Oriented Programming (OOP)

An knowledge of Object-Oriented programming (OOP) helps learners create reusable and scalable software. This module will cover:

Classes and Objects

Inheritance

Polymorphism

Encapsulation

Abstraction

Constructors

Method Overloading & Overriding

File Handling & Exception Handling

Students learn to effectively work with files while creating safe and error-free programs by:

Reading and Writing Files

CSV and Text File Operations

File Management

File Handling & Exception Handling

Custom Exceptions

Error Debugging Techniques

Modules and Packages

Learning about the modules and packages assists students in organizing Python programs into reusable and manageable code. Learners explore:

Creating Custom Modules

Importing Packages

Package Structure

Standard Python Libraries

MySQL/Database Connectivity

Students are taught the MySQL/Database Connectivity through Python to develop database-driven software. Subjects covered include:

Database Fundamentals

MySQL Installation

CRUD Operations

SQL Queries

Python Database Connectivity

Database Integration Projects

NumPy & Pandas

The course will introduce [NumPy and Pandas](#) as two of the commonly utilized Python libraries for analysis and manipulation of data. Students will learn:

Array Operations

DataFrames

Data Cleaning

Data Analysis

Data Visualization Basics

Django or Flask

Students get hands-on experience in modern web development by using Django as well as Flask. The topics covered include:

Web Application Development

URL Routing

Templates

Forms

Authentication

CRUD Applications

Deployment Basics

REST APIs

Software applications today communicate using APIs. Learners understand:

REST APIs

API Requests and Responses

JSON Handling

API Integration

Building RESTful Services using Python

Git & GitHub

Controlling version is a crucial ability for developers. Students are taught:

Git & GitHub

Repository Management

Branching and Merging

Version Control

Collaborative Development

Code Management Best Practices

Mini and Capstone Projects

Through the course students work on a variety of assignments, which include the Mini Project or Capstone Projects, allowing them to apply what they've learned. These projects aid in strengthening logic, coding confidence as well as debugging abilities, and the development of portfolios for interviews.

Make changes to the Why You Should Choose SevenMentor in [Python course in pune](#)? section by adding these items:

Include these points after Training based on a project:

[Sevenmentor Training Institute](#)

Core and Advanced Python curriculum

Object-Oriented Programming (OOP) with practical Coding

File Handling & Exception Handling

Modules and Packages

MySQL/Database Connectivity

NumPy & Pandas for Data Analysis

Django or Flask Web Development

REST APIs Development

Git & GitHub Version Control

Mini and Capstone Projects

Real-world applications

Naturally, it incorporates all your keywords and improves the article's credibility and SEO relevancy in search results that are relevant to Python Courses at Pune, Python Courses in Pune

as well as Python training within Pune. you may also have look at [spoken english course near me](#)