

Python Programming Full Curriculum

Professional Training Program

Course Overview

This curriculum is specially designed for private institutes to provide complete Python Programming training from beginner to advanced level. The course includes theory, practical labs, projects, assignments, interview preparation, and real-world development concepts.

Course Name	Python Programming Master Program
Duration	3 Months (12 Weeks)
Level	Beginner to Advanced
Training Mode	Online / Offline
Certification	Industry-Oriented Certificate

Module 1: Python Basics

- Introduction to Python
- Installation and Setup
- Variables and Data Types
- Operators and Expressions
- Input and Output

Module 2: Control Statements

- If Else Statements
- Nested Conditions

- Loops
- Break and Continue

Module 3: Functions

- Function Definition
- Arguments and Return Values
- Lambda Functions
- Recursion

Module 4: Data Structures

- Lists
- Tuples
- Sets
- Dictionaries

Module 5: OOP Concepts

- Classes and Objects
- Inheritance
- Polymorphism
- Encapsulation
- Abstraction

Module 6: File Handling

- Reading Files
- Writing Files
- CSV and JSON

Module 7: Exception Handling

- Try and Except
- Finally Block

- Custom Exceptions

Module 8: Database Connectivity

- SQLite
- CRUD Operations
- Python Database Integration

Module 9: Web Development

- Flask Framework
- Routing
- Templates
- Forms

Module 10: Projects

- Calculator App
- Student Management System
- Billing Software
- Mini Web Project

12-Week Training Plan

Week	Topics
1	Python Introduction & Setup
2	Variables, Data Types
3	Operators & Conditions
4	Loops and Functions
5	Data Structures
6	OOP Concepts
7	File Handling
8	Exception Handling
9	Database Programming
10	Flask Web Development
11	Projects
12	Interview Preparation

Practical Lab Exercises

- Calculator Program
- Banking System
- Student Record Management
- File Management Utility
- CSV Data Analyzer
- Flask Portfolio Website

Career Opportunities

Students completing this curriculum can apply for positions such as Python Developer, Software Engineer, Backend Developer, Data Analyst, Automation Tester, and Web Developer.

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Certification

Students who complete the course successfully and submit projects will receive an Industry-Oriented Python Programming Certificate from Chhavishka IT.

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