CODING PRO ACADEMY

ADVANCED PYTHON

Learn • Practice • Build • Create

Go beyond the basics with object-oriented programming, file handling, networking, GUI apps, databases and a real-world Python project.



DURATION 3 MONTHS

COURSE CURRICULUM

TOPICS	SUB TOPICS	
1 **Introduction**	Python Environment & Advanced Syntax Input & Output Operations	Variables, Data Types & Expressions
2 **Control Statements**	Conditional Statements Control Flow Statements	Looping Techniques
3 **Functions & Modules**	Functions Python Modules & Packages	Lambda Functions
4 **Data Structures**	Lists, Tuples & Dictionaries List Comprehensions & Iterators	Sets & String Operations
5 **Introduction to OOP**	OOP Fundamentals	Principles of Object-Oriented Programming
6 **Classes and Objects**	Creating Classes & Objects Encapsulation	Constructors & Instance Methods
7 **Inheritance**	Inheritance Types Polymorphism	Method Overriding
8 **Operator Overloading**	Method Overloading Magic (Dunder) Methods	Operator Overloading
9 **File Handling**	Reading & Writing Files Working with CSV & JSON Files	File Operations
10 **Error and Exception Handling**	Types of Exceptions Custom Exceptions	Exception Handling Techniques
11 **Network Programming**	Socket Programming HTTP Requests & APIs	Client-Server Communication
12 **GUI Programming**	Introduction to Tkinter Event Handling	GUI Widgets & Layouts
13 **Connection with Database**	SQLite Database Connectivity Database Integration with Python	CRUD Operations
14 **Project**	Python Mini Project Planning Project Testing & Deployment	Project Development

- ONLINE & OFFLINE LEARNING
- CERTIFICATE AVAILABLE
- LED BY IIT / IIM ALUMNI
- AI INTERVIEW & RESUME BUILDER

9213413571

info@codingproacademy.com

codingproacademy.com

15/B, Second Floor, Speranza Business Hub,
Beside Raj Victoria Shopping Center,
New Pal Road, Pal, Adajan, Surat, Gujarat 394510

Click here for location