

Python Programming Essentials

Course syllabus · Live online · Beginner to Intermediate

Go beyond the basics with file handling, object-oriented programming, modules and hands-on mini projects.

Live training	60 hours in total
Weekday batch	6 weeks · Monday to Friday, 2 hours per day (10 hours a week)
Weekend batch	8 weeks · Saturday and Sunday, 4 hours each day (8 hours a week)
Self-practice	about 30 hours in total (labs, assignments, revision)
Total effort	about 90 hours including self-practice
Mode	Live instructor-led online sessions · session recordings after each class · small batches
Trainer	Pratiksha
Batch start	Shared by our counselor
Batch timings	Weekday / weekend options, shared by our counselor
Course fee	Shared by our counselor (varies with current offers)

Who is this for?

Students and beginners.

Prerequisites

None. Everything from Python Foundations is included.

What you will learn

- Everything in Python Foundations
- Read and write TXT, CSV and JSON files
- Design programs with classes, inheritance, polymorphism and encapsulation
- Organize code into modules and packages
- Build and present mini projects

Tools and technologies

Python · OOP · File handling (TXT, CSV, JSON) · Modules and packages · VS Code

Detailed syllabus

#	Module	Hours	Topics	Hands-on
1	Python Foundations (complete)	36	• Installation and tooling • Variables, data types, conditionals, loops • Lists, tuples, dictionaries, sets • Functions, lambda functions, exception handling	As per Python Foundations
2	File Handling (TXT, CSV, JSON)	5	• Reading and writing text files • Working with CSV and JSON • Context managers	Data processing scripts
3	Object-Oriented Programming: Classes and Objects	6	• Classes, objects, attributes, methods • Constructors and special methods	Model real-world entities

#	Module	Hours	Topics	Hands-on
4	Inheritance, Polymorphism and Encapsulation	6	• Inheritance and method overriding • Polymorphism • Encapsulation and access control	Class hierarchy exercise
5	Modules and Packages	3	• Creating and importing modules • Packages, pip and virtual environments	Package a small library
6	Mini Projects	4	• Planning and building a mini project • Code review and presentation	Mini project
	Total live hours	60		

Projects

- Two mini projects (file-based and OOP-based)

Assessment

Assignments, module tests and a mini-project review.

Certification

Course completion certificate.

What is included

- Live training
- Hands-on labs
- Mini projects
- Certificate
- Session recordings after each class
- Small interactive batches

Our promise: we do not offer guaranteed-placement claims. We focus on building genuine skills so you are capable of clearing interviews and doing the job. Unpaid internship opportunities are available for practical exposure. Fees and batch dates vary with current offers, so please confirm them with our counselor. This syllabus is indicative and may be updated to reflect industry changes.

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