

Python Foundations

Course syllabus · Live online · Beginner

Start programming from zero. Learn Python basics, data structures, functions and error handling with live guidance.

Live training	36 hours in total
Weekday batch	4 weeks · Monday to Friday, 2 hours per day (10 hours a week)
Weekend batch	5 weeks · Saturday and Sunday, 4 hours each day (8 hours a week)
Self-practice	about 18 hours in total (labs, assignments, revision)
Total effort	about 54 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. We start from the basics.

What you will learn

- Set up a Python development environment
- Write programs using variables, conditions and loops
- Work with lists, tuples, dictionaries and sets
- Create and reuse functions, including lambda functions
- Handle errors gracefully

Tools and technologies

Python · Jupyter Notebook · VS Code

Detailed syllabus

#	Module	Hours	Topics	Hands-on
1	Python Installation, Jupyter and VS Code	3	• Installing Python • Jupyter Notebook and VS Code setup • Running and debugging scripts	Set up a working environment
2	Variables and Data Types	4	• Numbers, strings, booleans • Type conversion and operators • Input and output formatting	String and number exercises
3	Conditional Statements	3	• if / elif / else • Logical and comparison operators	Decision-making programs

#	Module	Hours	Topics	Hands-on
4	Loops	4	• for and while loops • break, continue, nested loops • Patterns and iteration problems	Pattern and number problems
5	Lists, Tuples, Dictionaries and Sets	8	• List and tuple operations • Dictionaries and sets • Comprehensions • Choosing the right collection	Data-handling exercises
6	Functions	5	• Defining and calling functions • Arguments, return values, scope • Recursion basics	Reusable function library
7	Lambda Functions	3	• Lambda expressions • map, filter, sorted with lambda	Functional exercises
8	Exception Handling	3	• try / except / finally • Raising exceptions • Defensive programming	Robust input validation
9	Revision and Assessment	3	• Concept revision • Practice test and review	Assessment
	Total live hours	36		

Projects

- Small console programs after each module
- Foundations mini-assessment

Assessment

Practice assignments and a final assessment.

Certification

Course completion certificate.

What is included

- Live interactive sessions
- Practice assignments
- Course completion 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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