



Python Programming

Category: Programming | Duration: 2 Months (8 Weeks)

~~Rs. 3,500~~

Rs. 2,000

**You Save
Rs. 1,500**

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Course Overview

A beginner-friendly course covering Python from the ground up - syntax, data structures, object-oriented programming, and practical mini-projects - building a strong foundation for further specialization in AI, data, or web development.

Prerequisites	Tools & Technologies
No prior programming experience required.	Python 3, VS Code, Jupyter Notebook, Git & GitHub

Curriculum

Week 1: Python Basics

- Installing Python, setting up the environment
- Variables, data types, and operators
- Input/output and basic expressions

Week 2: Control Flow & Functions

- Conditional statements (if/elif/else)
- Loops - for and while
- Defining and using functions

Week 3: Data Structures

- Lists, tuples, and sets
- Dictionaries and nested data structures
- List comprehensions

Week 4: Object-Oriented Programming

- Classes and objects
- Inheritance, encapsulation, and polymorphism
- Practical OOP examples

Week 5: File Handling & Exceptions

- Reading and writing files
- Exception handling with try/except
- Working with modules and packages



Week 6: Working with Libraries & APIs

- Introduction to NumPy basics
- Consuming APIs using the requests library
- Parsing and working with JSON data

Week 7: Mini Projects

- Building small CLI applications
- Practicing problem-solving with Python
- Code review and debugging practices

Week 8: Capstone Project

- Build a complete Python application
- Version control with Git/GitHub
- Project presentation and review

What You Will Learn

- Write clean, well-structured Python code
- Use core data structures effectively
- Apply object-oriented programming concepts
- Handle files, exceptions, and external APIs
- Use Git/GitHub for version control
- Build and present a complete Python project

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