

Advanced Python & Automation

Course syllabus · Live online · Intermediate to Advanced

Level up with advanced Python features and automate real-world tasks such as Excel reporting, web scraping, APIs and scheduled jobs.

Live training	30 hours in total
Weekday batch	3 weeks · Monday to Friday, 2 hours per day (10 hours a week)
Weekend batch	4 weeks · Saturday and Sunday, 4 hours each day (8 hours a week)
Self-practice	about 20 hours in total (labs, assignments, revision)
Total effort	about 50 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?

Learners who know Python fundamentals and OOP and want to automate work or move into automation roles.

Prerequisites

Python Programming Essentials, or equivalent Python and OOP knowledge.

What you will learn

- Use iterators, generators and decorators
- Automate Excel, PDF and file workflows
- Scrape web data and call APIs
- Schedule scripts and send automated emails
- Write tested, logged, maintainable automation code

Tools and technologies

Python · pandas · openpyxl · requests · BeautifulSoup · pytest · smtplib

Detailed syllabus

#	Module	Hours	Topics	Hands-on
1	Advanced Python Concepts	8	• Iterators, generators, decorators • Context managers and closures • Regular expressions • Type hints and code quality	Utility scripts with decorators and generators
2	Working with Files, Excel and PDFs	5	• Automating Excel with openpyxl/pandas • PDF and document handling • Batch file operations	Report-generation automation

#	Module	Hours	Topics	Hands-on
3	Web Scraping and API Automation	6	• requests and HTTP basics • HTML parsing with BeautifulSoup • Calling REST APIs and handling JSON	Scrape and consolidate data
4	Email, Scheduling and System Automation	5	• Sending email with smtplib • Scheduling scripts • OS, subprocess and shell automation	Scheduled reporting script
5	Testing, Logging and Packaging	3	• Logging • unittest/pytest basics • Packaging scripts	Tested automation script
6	Automation Project	3	• Planning and building an automation project • Review and presentation	Project
	Total live hours	30		

Projects

- Automated report-generation pipeline
- Web-scraping data collector

Assessment

Assignments and an automation project review.

Certification

Course completion certificate.

What is included

- Live instructor-led online sessions
- Hands-on labs and assignments
- Session recordings after each class
- Doubt-solving support
- Course completion certificate
- Small interactive batches
- Unpaid internship opportunities

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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