

6 MONTHS



{APDC}

Advanced PYTHON
Django Certification

Advanced Python Django Certification(APDC)

www.offensotech.com



About *Offenso Tech School

Offenso Tech School is an innovative **coding and programming academy** founded by the team behind **Offenso Hackers Academy**, Kerala's most-followed cybersecurity institute. Our mission is to **redefine how coding is taught** by moving beyond traditional classroom methods and creating a **practical, industry-aligned learning experience**.

We aim to build the **best academy to learn programming in Kerala**, empowering students and professionals to confidently enter the tech workforce.

#Code the Future

About Python Full Stack Development

The Python Full Stack Development program is designed to teach you how to build **dynamic, scalable, and production-ready web applications** using Python, Django, REST APIs, PostgreSQL, ReactJS, and real-time technologies.

Across 6 months, you will learn frontend development, backend architecture, API development, authentication, real-time communication, deployment, monitoring, and complete industry-standard workflows — with hands-on mini projects and a full-stack capstone application.

Course Outline



Frontend Foundations

- HTML, CSS, JavaScript (ES6+)
- Responsive Design (Flexbox, Grid)
- DOM Manipulation & Fetch API
- Git & GitHub (Workflow, Branching, Repos)
- Project

Python Programming (Core + OOP)

- Python Fundamentals & Data Structures
- Functions, Lambda, Comprehensions
- OOP: Classes, Inheritance, Polymorphism
- File Handling & Exception Handling
- Project

Django Backend Development

- Django MVT Architecture
- Models, Views, Templates, Routing
- ORM + PostgreSQL Integration
- Authentication & Role-Based Access
- Query Optimization & Caching
- Project

REST API + React Frontend

- REST API Development (Django REST Framework)
- Serializers, Routers, JWT Authentication
- React Components, Hooks, Routing
- API Integration (Axios / Fetch)
- Project



Capstone : Real-Time Audio/Video Communication & Scaling

- WebSockets & Socket.IO
- Real-Time Chat Application
- WebRTC Audio/Video Calling
- Redis Caching & Pub/Sub
- Scaling with RabbitMQ / Kafka
- Secure Coding (XSS, CSRF, CORS)

Testing, Deployment & Monitoring

- Unit Testing (Pytest) & API Testing
- React E2E Testing (Cypress)
- Docker & Docker Compose
- CI/CD (GitHub Actions)
- Deployment (Render / Railway / Linux VPS)
- Monitoring: Prometheus, Grafana, Sentry





Why This Course

The Full Stack Development program is designed to launch and accelerate your career in web technologies. Here's why you should choose this program

- **COMPREHENSIVE CURRICULUM**

A comprehensive full-stack curriculum built on Python, Django, and modern frontend technologies, spanning databases, APIs, and deployment.

- **HANDS-ON LEARNING**

Work on multiple real-world projects, mini apps, and capstone assignments that showcase your skills to future employers.

- **CAREER-ORIENTED PROGRAM**

Prepare for in-demand roles such as Full Stack Developer, Backend Engineer, Frontend Engineer, and DevOps Associate.

- **INDUSTRY-RELEVANT TOOLS & PRACTICES**

Gain expertise in Git, Docker, CI/CD, monitoring, cloud deployments, and scalable application design — skills employers value today

- **100% PLACEMENT ASSISTANCE**

Kickstart your tech career with our resume building, mock interviews, and dedicated placement support program.

#CODE THE FUTURE



Tools & Technologies Covered

- **Frontend:** HTML, CSS, JavaScript, ReactJS
- **Backend:** Python, Django, Django REST Framework
- **Database:** PostgreSQL
- **Real-Time:** WebSockets, Socket.IO, WebRTC
- **Scaling:** Redis, RabbitMQ, Kafka
- **Testing:** Pytest, Postman, Cypress
- **DevOps:** Docker, GitHub Actions, Nginx
- **Monitoring:** Prometheus, Grafana, Sentry
- **Version Control:** Git & GitHub





CAREER OPPORTUNITIES

After completing this program,
you can apply for:

- Python Full Stack Developer
- Django Developer
- Backend Engineer
- API Developer
- ReactJS Frontend Developer
- Software Engineer (Python)
- Real-Time Application Developer

What You'll Gain

- ✓ Real-world full stack development experience
- ✓ Mastery of Python + Django backend systems
- ✓ Ability to build REST APIs & real-time applications





Course Overview

This Python Full Stack Development Program teaches you to

build complete, production- ready web applications using Python, Django, PostgreSQL, REST APIs, React, WebSockets, WebRTC, Docker, CI/CD, and monitoring tools.

You will build multiple real-world projects, including a Blog System, CRUD Application, Real-Time Chat App, and a full-scale capstone application.

By the end of the course, you'll be fully prepared to begin your career as a **Python Full Stack Developer**, equipped with practical skills and a professional portfolio.

FAQs

Q Is this course beginner-friendly?

A Yes — no prior coding experience is required.

Q What is the duration of the course?

A 6 months with project-based learning throughout.

Q What projects will I build?

A Portfolio website, Python applications, Blog System, Full Stack CRUD App, Real-Time Chat App.

Q Do you provide placement assistance?

A Yes — resume building, mock interviews, coding assessments, and job assistance.

Q What system is required?

A 8GB RAM, i5 processor or equivalent, stable internet.

Q What career roles can I apply for after this course?

A Python Full Stack Developer, Django Developer, Backend Engineer, API Developer, React Developer, DevOps Associate.

