

# FULL STACK IN PYTHON

**PWPD** – (PROFESSIONAL CERTIFICATE COURSE IN WEB DEVELOPMENT IN PYTHON)

**Duration : 200 Hrs**

## OBJECTIVE :

The Professional Certification in Web Development using Python is designed to equip individuals with the necessary skills and knowledge to become proficient in developing web applications using the Python programming language. This course covers both the fundamental concepts and advanced techniques required to build dynamic and interactive websites.



## LEARNING OUTCOMES :

- ▶ Master Python programming including syntax, data types, control flow, functions, modules, and file handling.
- ▶ Understand web development fundamentals, including client-server architecture, HTML, CSS, JavaScript, and web frameworks.
- ▶ Develop responsive and interactive front-end interfaces using HTML5, CSS3, JavaScript, and Bootstrap.
- ▶ Gain competence in back-end development with Python using frameworks such as Django, covering HTTP requests, URL routing, and database interactions.
- ▶ Acquire knowledge in database integration, designing schemas, querying databases with Python, and utilizing Object-Relational Mapping (ORM) tools like SQL Alchemy.
- ▶ Implement user authentication and security measures, including user registration, login systems, secure password hashing, and protection against common web vulnerabilities.
- ▶ Become proficient in designing and building RESTful APIs using Python and frameworks like the Django REST framework.
- ▶ Enhance skills in testing, debugging, and optimization for web applications, including unit testing, test-driven development, and performance optimization.

## CAREER OPTIONS :



FULL-STACK DEVELOPER



PYTHON DEVELOPER



FREELANCE WEB CONSULTANT



DJANGO DEVELOPER



UI/UX DEVELOPER