



**ROLASOFT PROFESSIONAL COMPUTER & IT
COURSES VERSION 2.0 LATEST**

Diploma in Certified Python Enterprise Application Developer

*Become a job-ready Python Developer in 6
months!*

Benefits of Studying Diploma in Python Programming with RolaSoft

✓ 1. Industry-Relevant Curriculum

Stay ahead with a syllabus designed by industry experts, focused on real-world applications of Python.

✓ 2. Hands-On Training

Learn by doing — build real-time projects, develop applications, and gain practical coding experience.

✓ 3. Experienced Instructors

Gain insights from certified professionals and senior software engineers with years of teaching and industry experience.

✓ 4. Placement Assistance

Access job support services including resume building, mock interviews, and direct placement opportunities with partner companies.

✓ 5. Flexible Learning Modes

Choose between: **Online**, **Offline (at our center)**, or **Hybrid Classes**

Benefits of Studying Diploma in Python Programming with RolaSoft

✓ 6. Mini & Major Projects

Work on individual and group projects to strengthen your portfolio and impress future employers.

✓ 7. Certification Upon Completion

Earn a **Diploma Certificate** from **RolaSoft Technologies**, recognized by IT recruiters and employers.

✓ 8. Small Batch Size

Personalized attention and better interaction in small groups for an enhanced learning experience.

✓ 9. Affordable Fees & Installment Plans

Top-tier training at a reasonable cost, with flexible payment options.

✓ 10. Career-Oriented Skills You'll Gain at RolaSoft Technologies

RolaSoft ensures you're job-ready with the right tech stack and practical knowledge.

Diploma in Certified Python Programming Course Details



Duration

Six (6) Months



Schedule

Weekdays / Weekends



Learning Modes

Online, Offline (at our center), or Hybrid Classes



Start Date

New batches start every month — enroll now!



Eligibility

No prior experience required

Certified Python Programming Language Prerequisites

- ✓ Basic knowledge of mathematics and logical reasoning
- ✓ No prior programming experience is required, but familiarity with computers is helpful
- ✓ Familiarity with OOP concepts, databases, and web technologies
- ✓ Experience with basic HTML, CSS, and JavaScript is a plus

Certified Python Programming Language – Program Details

Program Overview

The **Python Programming Language Course** by *Rolasoft Technologies* is a structured, beginner-friendly program designed to build strong programming foundations using Python — one of the most versatile and in-demand programming languages today.

Over six months, learners will start from the basics and progress through core programming concepts, data structures, file handling, databases, and web development. The course also includes hands-on projects, exposure to real-world use cases, and an introduction to Python frameworks and automation.

This course is perfect for students, job seekers, aspiring data analysts, and professionals aiming to switch careers or strengthen their software development skills.

Diploma in Certified Python Programming Course Curriculum

Month 1: Introduction to Python Programming

- ✓ Introduction to Python and its uses
- ✓ Installing Python and setting up an IDE (PyCharm, VS Code, Jupyter)
- ✓ Writing and executing Python scripts
- ✓ Variables, Data Types, and Operators
- ✓ Input/Output operations
- ✓ Conditional Statements (if, elif, else)
- ✓ Loops (for, while)

Diploma in Certified Python Programming Course Curriculum

Month 2: Functions, Modules & Error Handling

- ✓ Defining and calling functions
- ✓ Function arguments and return values
- ✓ Scope and Recursion
- ✓ Built-in Functions and Modules
- ✓ Creating Custom Modules
- ✓ Introduction to Exception Handling
- ✓ Try-Except, Finally, and Custom Exceptions

Diploma in Certified Python Programming Course Curriculum

Month 3: Data Structures in Python

- ✓ Lists, Tuples, Sets, and Dictionaries
- ✓ List / Dict Comprehensions
- ✓ Sorting and Filtering Data
- ✓ String Handling and Regular Expressions
- ✓ Iterators and Generators
- ✓ Advanced looping techniques
- ✓ **Mini Project:** Inventory or Contact Manager

Diploma in Certified Python Programming Course Curriculum

Month 4: File Handling, OOP & JSON

- ✓ Working with Files (open, read, write, append)
- ✓ Working with CSV and JSON files
- ✓ Object-Oriented Programming (OOP)
(Classes and Objects, Constructors and Destructors, Inheritance and Polymorphism, Encapsulation)
- ✓ Real-world OOP examples

Diploma in Certified Python Programming Course Curriculum

Month 5: GUI Development and Database Connectivity

- ✓ GUI with Tkinter (Widgets, Layouts, Events)
- ✓ Connecting Python to Databases (SQLite/MySQL)
- ✓ CRUD operations with databases
- ✓ Using sqlite3 and mysql.connector
- ✓ **Project:** Desktop App with GUI and Database (e.g., Library or Student Management System)

Diploma in Certified Python Programming Course Curriculum

Month 6: Web Development & Final Project

- ✓ Introduction to Web Development with Flask
- ✓ HTML Templates with Jinja2
- ✓ Creating REST APIs with Flask
- ✓ Using Python for Backend Logic
- ✓ Deployment using Heroku or Local Server
- ✓ **Capstone Project:** End-to-End Web Application using Flask + Database

Tools & Technologies Used

Tools & Technologies Used for **Certified Python Programming** Course are:

- ✓ Python 3.x
- ✓ VS Code / PyCharm / Jupyter
- ✓ Tkinter (GUI)
- ✓ SQLite / MySQL
- ✓ Flask Framework
- ✓ Git & GitHub

Final Capstone Project (End of 6 Months)

Students will complete an **industry-level project** in **Certified Python Programming** :

- ✓ A fully functional End-to-End Web Application using Flask + Database

Certified Python Programming Learning Outcomes

By the end of this course, students will be able to:

- ✓ Write efficient and well-structured Python code
- ✓ Build desktop and web-based applications
- ✓ Work with files, databases, and external APIs
- ✓ Understand and implement object-oriented principles
- ✓ Deploy real-world Python projects
- ✓ Prepare for entry-level software or Python developer roles

Certification Obtain

After completion of the program, the student will be awarded with a certificate:

Diploma in Certified Python Enterprise Application Developer

The program also prepares students for industry certifications such as:

- ✓ PCAP – Certified Associate in Python Programming
- ✓ PCPP – Certified Professional in Python Programming (1 & 2)

Certified Python Programming Career Opportunities

- ✓ Python Enterprise Developer (Flash Developer)
- ✓ Backend Developer
- ✓ Full Stack Java Developer
- ✓ Software Engineer / Software Developer
- ✓ Python Solution Architect
- ✓ System Integration Specialist
- ✓ Technical Lead / Team Lead (Python)
- ✓ Application Support Engineer (Python Applications)

Who Should Take This Certified Python Programming?

Who Should Take This **Certified Python Programming**?

- ✓ Software developers aiming to specialize in enterprise applications
- ✓ Python programmers looking to advance their backend and full-stack skills
- ✓ IT professionals transitioning into enterprise application development
- ✓ Tech Enthusiasts
- ✓ Professionals Upskilling in Python
- ✓ Aspiring Software Developers
- ✓ Beginners in Programming

Rolasoft Technologies Services

Rolasoft Technologies – Services Offered

✓ **SOFTWARE DEVELOPMENT COMPANY**

(MOBILE APPLICATION, WEB APPLICATION, DESKTOP APPLICATION, CUSTOMIZED APPLICATION, E-COMMERCE WEBSITE)

✓ **PROFESSIONAL COMPUTER AND IT EDUCATION**

(TOP-UP PROGRAMS, DIPLOMA PROGRAMS, CERTIFICATE PROGRAMS, TECH @ SCHOOL, CORPORATE PROGRAMS, SIWES PROGRAMS, CUSTOMIZED PROGRAMS)

✓ **DIGITAL ADVERTISING AND BUSINESS BRANDING**

(SOCIAL MEDIA MARKETING, EMAIL MARKETING, CONTENT MARKETING, WEBSITE SEO, BRANDED CLOTHING, STICKERS AND TAG, CUSTOM BRANDING, AND MANY MORE)

✓ **INTERNATIONAL UNIVERSITY ADMISSION PROCESSING**

(AMERICA, UK, CANADA, EUROPE, AFRICA, AND MANY MORE)

Contact & Registration

 Phone: +234 8032867212, +234 8082171242

 Email: info@rolasofttech.com

 Website: www.rolasofttech.com

 Address: 2, Martins Street Off Ojuelegba Road, Yaba, Lagos State.



Enroll Today & Start Your Python Journey!
Code your future with Python.