CRAW
ACADEMY

Python 667

Your Ultimate Guide to Seamless Coding Experiences

Python Programming

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Table of **Content:**

Program **Overview:**

The Python Programming Training Course offered by Craw Security, renowned as the Best Python Training Institute in India, is designed to equip students with a profound understanding of Python programming, from the basics to advanced concepts. Our course caters to the needs of individuals aiming to excel in the fields of software development, data analysis, cybersecurity, and various other domains that rely on Python as a core programming tool.

Program **Features:**

- ✓ 60 hours of instructor-led training or Live VILT classes.
- ✓ Accredited by the FutureSkills Prime, Approved by the Government of India.
- ✓ The course will be in both English and Hindi mediums.
- ✓ Learn from Python tech gurus with highly credible experience in Python programming.
- ✓ Hands-on practical exercises to learn with real-time problem-solving scenarios.
- ✓ Cutting-edge curriculum to stay at the frontiers of the Python domain.
- ✓ Access course materials and live sessions through both online and offline modes to suit your learning preferences.

Delivery **Mode:**

Online Bootcamp / Offline Classroom Training / Corporate Training Facility

Prerequisites of **Python Programming:**

A basic understanding of computer operations and programming concepts is beneficial but not mandatory. Eagerness to learn and apply new programming skills.

Target **Audience:**

- ✓ Aspiring programmers seeking to learn Python from scratch.
- ✓ Professionals aiming to enhance their programming skills for career advancement.
- ✓ Individuals who are genuinely interested in data analysis, machine learning, web development, or cybersecurity.
- ✓ Anyone who is willing to make an outstanding career in the Python domain.

Key Learning **Outcomes:**

This Python programming Training Course will help you:

- ✓ **Master Python Syntax and Core Programming Concepts:** Understand and apply the fundamental principles of Python programming, including variables, data types, operators, and control structures.
- ✓ **Solve Real-world Problems:** Utilize Python to develop solutions for a variety of challenges in software development, data analysis, automation, and more, enhancing problem-solving abilities.

- ✓ **Develop and Debug Python Applications:** Gain the ability to create functional Python applications, utilizing best practices in coding and debugging to ensure efficiency and reliability.
- ✓ **Implement Object-Oriented Programming (OOP):** Apply OOP principles in Python to design and implement reusable and modular code, enhancing software architecture and design.
- ✓ **Work with Data Structures and Algorithms:** Employ Python's built-in data structures (lists, tuples, sets, dictionaries) effectively, and understand how to approach and solve problems using algorithms.
- ✓ **Utilize Python Libraries and Frameworks:** Explore and implement solutions using powerful Python libraries and frameworks for web development, data analysis, machine learning, and more.

Certification **Alignment:**

Our Python Programming Training Course is genuinely accredited to the FutureSkills Prime, a MeitY — NASSCOM, Digital Skilling Initiative, and approved by the Government of India. Moreover, Craw Security is a proud partner of FutureSkills Prime.

Certification **Details & Criteria:**

Upon successful completion of the course and passing the examination, participants will receive a certification from Craw Security. The examination assesses the participant's ability to apply Python Programming Training techniques in a controlled environment. Specific criteria for certification include practical assessments and a theoretical exam.

About the **Exam:**

- ✓ **Number of Questions:** 35 to 40 Questions
- ✓ **Exam Test Duration:** 1 Hour
- ✓ **Test Format:** Multiple Choice Question (MCQ)
- ✓ **Exam Cost:** 600 Inclusive Taxes

Craw Security **Certification Criteria:**

- ✓ Attend 75% of classes and obtain 50% marks in the corresponding examination.
- ✓ Please note that there is an additional fee for the FutureSkills Prime exam related to this course.

100% Placement with **1 Year Cyber Security Course:**

There is a specialized set of Terms and Conditions for a 100% Placement Guarantee with **our 1 Year Cybersecurity Diploma** that needs to be fulfilled by each and every student who is willing to benefit from features from Craw Security. However, we have jotted down all the necessary T&Cs that need to be completed to take the advantage of 100% Placement Guarantee from the Department of Training & Placement by Craw Security:

- ✓ Attendance of 75% should be mandatory.
- ✓ Marks for internal exams should be 80% mandatory.
- ✓ Fees for 1 Year Cybersecurity Diploma Course should be properly paid.
- ✓ Candidate can apply for a job after completion of 6 modules.
- ✓ A candidate is applicable for Mock Interviews/PD Class after completion of 3 modules.
- ✓ Global certifications are required, if needed by companies for jobs.
- ✓ Candidate should be Graduate/Pursuing.
- ✓ One-time job Assistance/Placement will be provided, if the candidate misses any interview, Craw Placement Cell will not be liable to re-arrange the interview, and also Craw Academy will not be liable for any refund or future litigations or claims.

- ✓ Package as per candidate's skills or according to company norms.
- ✓ Ideal Candidates can apply for multiple jobs.
- ✓ The Post Placement Process will be provided by the Placement Cell, highly known as the Department of Training and Placement, which is as follows:
    1. Documentation
    2. Offer Letter
    3. Joining Date/ Timeline of Joining

What to Choose After this **Course:**

A person can choose the **1 Year Cybersecurity Diploma Course** after the completion of this course, which is basically a 12-course bundle of cybersecurity by Craw Security whose maximum courses are accredited to the **FutureSkills Prime, a MeitY — NASSCOM,** Digital Skilling Initiative, and approved by the Government of India. After doing this course, a person would be eligible to choose from a variety of options for a fruitful professional career in the long run.

Course **Curriculum:**

Module 01: Introduction

- ✓ Lesson 01: Programming language introduction
- ✓ Lesson 02: Translators(Compiler, Interpreter and assembler)
- ✓ Lesson 03: Uses of computer programs
- ✓ Lesson 04: Algorithm
- ✓ Lesson 05: Flow chart

Module 02: Python Introduction

- ✓ Lesson 01: History
- ✓ Lesson 02: Why python created
- ✓ Lesson 03: Fields of use
- ✓ Lesson 04: Use of Python in Cyber security
- ✓ Lesson 05: Reasons for using python
- ✓ Lesson 06: Syntax
- ✓ Lesson 07: Installation of IDE (Pycharm/ Visual studio)
- ✓ Lesson 08: Running a hello world program

Module 03: Comparison of Python with other Programming Language

- ✓ Lesson 01: Python vs Java
- ✓ Lesson 02: Python vs C++

Module 04: data Type

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Discuss all data types
- ✓ Lesson 03: Use type() to show dynamically typed language

Module 05: Variables

- ✓ Lesson 01: What is variable
- ✓ Lesson 02: Declaration rules
- ✓ Lesson 03: Multiple variable declaration
- ✓ Lesson 04: Valid and invalid variables
- ✓ Lesson 05: Type casting

Module 06: String

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Declaration
- ✓ Lesson 03: All Functions with examples

Module 07: Operators

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Arithmetic operators
- ✓ Lesson 03: Assignment operators
- ✓ Lesson 04: Comparison operators
- ✓ Lesson 05: Logical operators
- ✓ Lesson 06: Identity operator
- ✓ Lesson 07: Bitwise operator
- ✓ Lesson 08: Membership operator

Module 08: List

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Declaration
- ✓ Lesson 03: All Functions with examples

Module 09: Tuple

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Declaration
- ✓ Lesson 03: All Functions with examples

Module 10: Dictionary

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Declaration
- ✓ Lesson 03: All Functions with examples

Module 11: Set

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Declaration
- ✓ Lesson 03: All Functions with examples

Module 12: Conditional Statement

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: If introduction with examples
- ✓ Lesson 03: If statement practice questions
- ✓ Lesson 04: If- else introduction with examples
- ✓ Lesson 05: If - else statement practice questions
- ✓ Lesson 06: elif introduction with examples
- ✓ Lesson 07: elif statement practice questions
- ✓ Lesson 08: Nested if
- ✓ Lesson 09: Short hand if- else

Module 13: Looping

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: While loop

- ✓ Lesson 03: Introduce modules (pyautogui)
- ✓ Lesson 04: While loop practice questions
- ✓ Lesson 05: For loop introduction with examples
- ✓ Lesson 06: For loop practice questions
- ✓ Lesson 07: Nested loop

Module 14: Function

- ✓ Lesson 01: Introduction function
- ✓ Lesson 02: Declaration, calling of function
- ✓ Lesson 03: Lambda function
- ✓ Lesson 04: Filter
- ✓ Lesson 05: Reduce function
- ✓ Lesson 06: Map function

Module 15: File Handling

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Text file handling
- ✓ Lesson 03: Binary file handling

Module 16: Python Array

- ✓ Lesson 01: Array Introduction
- ✓ Lesson 02: Array basic operations
- ✓ Lesson 03: Array Function

Module 17: Object Oriented Programming

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Difference b/w procedural programming and OOPS
- ✓ Lesson 03: Class
- ✓ Lesson 04: Object
- ✓ Lesson 05: Encapsulation
- ✓ Lesson 06: Inheritance
- ✓ Lesson 07: Abstraction
- ✓ Lesson 08: Polymorphism

Module 18: Date and Time

- ✓ Lesson 01: Date and time function off date time module

Module 19: Web Scrapping

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Introduce basic html tags
- ✓ Lesson 03: Introduction to requests library
- ✓ Lesson 04: Introduction to bs4
- ✓ Lesson 05: Scrapping through Beautiful Soup

Module 20: Network Interaction

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Client
- ✓ Lesson 03: Server
- ✓ Lesson 04: Port number

- ✓ Lesson 05: IP
- ✓ Lesson 06: Client - server connection with python code

Module 21: Tkinter

- ✓ Lesson 01: Introduction to GUI programming
- ✓ Lesson 02: Widgets introduction and code
- ✓ Lesson 03: Create Login form project
- ✓ Lesson 04: Task Text to speech

Module 22: Database Connection

- ✓ Lesson 01: Introduction to database
- ✓ Lesson 02: Install MYsql
- ✓ Lesson 03: Explain basic query of sql
- ✓ Lesson 04: Connection with python
- ✓ Lesson 05: Execute some queries by python

Module 23: Multithreading

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Real life examples
- ✓ Lesson 03: Perform operations over threads

Module 24: Mail Sending Program

- ✓ Lesson 01: Python project to send email
- ✓ Lesson 02: App password generating
- ✓ Lesson 03: Sending email

Module 25: Python for Image Processing

- ✓ Lesson 01: Using opencv library
- ✓ Lesson 02: Accessing image
- ✓ Lesson 03: Rgb to grayscale
- ✓ Lesson 04: Resizing
- ✓ Lesson 05: Filters
- ✓ Lesson 06: Saving image

Module 26: Introduction to Machine Learning

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Steps to create machine learning application
- ✓ Lesson 03: Real examples of machine learning

Module 27: Introduction to Data Science

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: Terminology used in Data Science

Module 28: Introduction to Artificial Intelligence

- ✓ Lesson 01: Introduction
- ✓ Lesson 02: AI Websites as example

About us:

Craw Security is India's leading cybersecurity training institute, dedicated to developing the next generation of cybersecurity professionals. With a focus on practical, hands-on training, we offer a wide range of courses tailored to all skill levels. Our mission is to enhance the cybersecurity posture of individuals and organizations worldwide.

For more information, please visit our course page website:
https://www.craw.in/learn-python-training-in-delhi-python-course/

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