RECON
CYBER SECURITY

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OUR PARTNERS

cisco python EY Red Hat CompTIA Microsoft

OVERVIEW

In this course, students will learn the about python programming. Topics include Modules, PIP, Dictionary, Conditions, Script editing and more.

PRE-REQUISITES

Students should have prior knowledge with Operation System such as : Windows 7, 8, 10, or 11 etc.

WHO WE ARE

We promise to offer the best training and certification programs to our students. We provide the programs and resources you need to succeed if you are just beginning your Cyber security career or are an experienced expert wishing to develop your skills. Contact us today to learn more about our training and certification options!

WHY CHOOSE US

Welcome to our Cyber Security Training Institute, where we are committed to giving individuals and organisations who want to protect their digital assets thorough training and certification programmes. Our knowledgeable Trainers will bring you through the complexities of cyber security with their cutting-edge expertise and practical experience. You will learn useful methods and abilities to protect yourself from online dangers, such as ethical hacking, network security, incident response, and other things. Our programmes give you the opportunity to hone your skills and grow your profession through practical lab experiences and individualised coaching.

PYTHON PROGRAMMING COURSE CONTENT

COURSE DURATION: 40 hrs

- Lesson 01 : Python An Overview
  - What is Python? A high-level introduction to Python's core purpose and applications.
  - History of Python: Explore the background and evolution of Python from its inception.
  - Versions of Python: A breakdown of the different versions and updates.
  - Features of Python: Discuss key features like simplicity, readability, and versatility.
  - Python vs Other Languages: Compare Python with other programming languages like Java, C++, etc.
  - How Python Executes Programs: Understand how Python executes code and interprets it.
  - Python Comments: Learn about single-line and multi-line comments in Python.
- Lesson 02 : Python Variables & Data Types
  - Understanding Variables: What are variables and how are they used in Python?
  - Assigning Variables: Syntax and rules for assigning variables in Python.
  - Data Types in Python: Introduction to Python's core data types like int, float, string, etc.
- Lesson 03 : Operators
  - Types of Operators: Learn about arithmetic, relational, logical, bitwise, and other operators.
  - Operator Precedence & Associativity: How Python evaluates expressions based on operator precedence.
- Lesson 04 : Python Conditional Statements
  - The If Statement: Structure and usage of if statements in Python.
  - If-Else Statements: Adding conditions with else.
  - Elif Statements: Working with multiple conditions using elif.
  - Nested If-Else Statements: Embedding conditional statements within each other
- Lesson 05 : Python Looping Concept
  - For Loop: Learn how to iterate over sequences using for loops.
  - While Loop: Understand the while loop and its usage.
- Lesson 06 : Python Control Statements
  - Break Statement: How to break out of loops.
  - Continue Statement: Skipping iterations in loops.
  - Pass Statement: Using pass for placeholder statements.
- Lesson 07 : Python Data Type Casting
  - Converting Data Types: Learn how to cast between different data types in Python.
- Lesson 08 : Python Number
  - Mathematical Functions: Overview of built-in math functions.
  - Random Functions: How to generate random numbers in Python.
  - Trigonometric Functions: Utilizing Python's trigonometric functions.
- Lesson 09 : Python String
  - Accessing Strings: Working with string indexes and slices.
  - Basic String Operations: Concatenation, repetition, and other string manipulations.
  - String Slicing: Learn how to extract substrings.
  - String Built-In Functions: Exploring Python's built-in string methods.
- Lesson 10 : Python List
  - Introduction to Lists: Understanding lists and their uses.
  - Accessing Lists: Indexing and slicing lists.
  - List Operations: Learn about adding, removing, and modifying list elements.
  - Working with Lists: Common methods and techniques for list manipulation.
  - List Slicing: Extract sublists.
  - Aliasing and Cloning: Understand references and copying lists.
  - List Comprehension: A concise way to create lists.
  - Deleting Lists: How to remove elements or entire lists.
  - List Built-In Functions: Commonly used list methods like len(), append(), etc.
- Lesson 11 : OOPs Concepts
  - Classes and Objects: Learn object-oriented programming in Python.
  - Attributes: Understanding class attributes.
  - Inheritance: Reusing code with inheritance.
  - Overloading and Overriding: Implementing function overloading and method overriding.
  - Interface and Abstraction: Implementing OOP principles like abstraction.

- Lesson 12 : Python Tuples
  - Introduction to Tuples: What are tuples, and how are they different from lists?
  - Creating Tuples: Tuple creation and initialization.
  - Accessing and Modifying Tuples: Indexing and modifying tuple values.
  - Tuple Deletion: Removing elements from tuples.
    Tuple Built-In Functions: Commonly used tuple functions.
- Lesson 13 : Python Dictionary
  - Introduction to Dictionaries: What is a dictionary, and when is it used?
  - Declaring and Accessing Dictionaries: How to create and access dictionary elements.
  - Dictionary Operations: Adding, removing, and updating key-value pairs.
  - Dictionary Built-In Functions: Important functions like get(), keys(), values(), etc.
- Lesson 14 : Python Sets
  - Introduction to Sets: An overview of sets and their properties.
  - Declaring Sets: How to create and declare sets in Python.
  - Set Operations: Learn about union, intersection, and other set operations.
  - Set Built-In Functions: Common set methods like add(), remove(), etc.
- Lesson 15 : Python sys Lesson
  - Introduction to sys: Learn how to use the sys module for system-specific parameters.
- Lesson 16 : Python OS Lesson
  - Working with OS Module: Understand how to interact with the operating system using the os module.
- Lesson 17 : Python Function
  - Defining Functions: Creating functions in Python.
  - Calling Functions: Learn how to call and use functions.
  - Types of Functions: Explore built-in, user-defined, and anonymous (lambda) functions.
  - Global and Local Variables: Understand variable scope in Python.
- Lesson 18 : Lesson
  - The Import Statement: Learn how to import modules.
  - From…Import: Selectively importing parts of a module.
- Lesson 19 : File Handling (Input / Output)
  - Opening and Closing Files: Understand file handling operations.
  - Reading and Writing Files: Learn how to read and write to files.
  - Renaming and Deleting Files: How to manage files using Python's os module.
  - Directories: Navigating directories and file structures.
- Lesson 20 : Exception Handling
  - Error Handling: Types of exceptions and how to handle them.
- Lesson 21 : Exception Handling
  - Raising Exceptions: Manually trigger exceptions.
  - User-Defined Exceptions: Create and raise custom exceptions.
- Lesson 22 : Multithreading
  - Working with Threads: Learn how to create and start threads.
  - Thread Synchronization: Handling thread safety and synchronization.
- Lesson 23 : Python Mail Sending
  Sending Emails with Python: Learn how to send emails programmatically.
- Lesson 24 : Regular Expression
  - Using Regular Expressions: Learn to search patterns in text.
  - Match and Search Functions: Difference between match() and search().
- Lesson 25 : Python Web Scraping
  - Introduction to Web Scraping: How to extract data from websites using Python.
- Lesson 26 : Python Data Science
  - Introduction to Data Science: How Python is used in data analysis and visualization.
- Lesson 27 : Introduction with Python Machine Learning
  - Introduction to Machine Learning: Basics of using Python for machine learning applications.

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- **Weekend / weekdays classes**
- **Online and offline classes**
- **1 year membership**
- **Certificate after completion**
- **Interview preparation**
- **Live hacking training**
- **Class session recordings**
- **Ebooks tutorials**
- **24x7 support**

Every Class Recordings

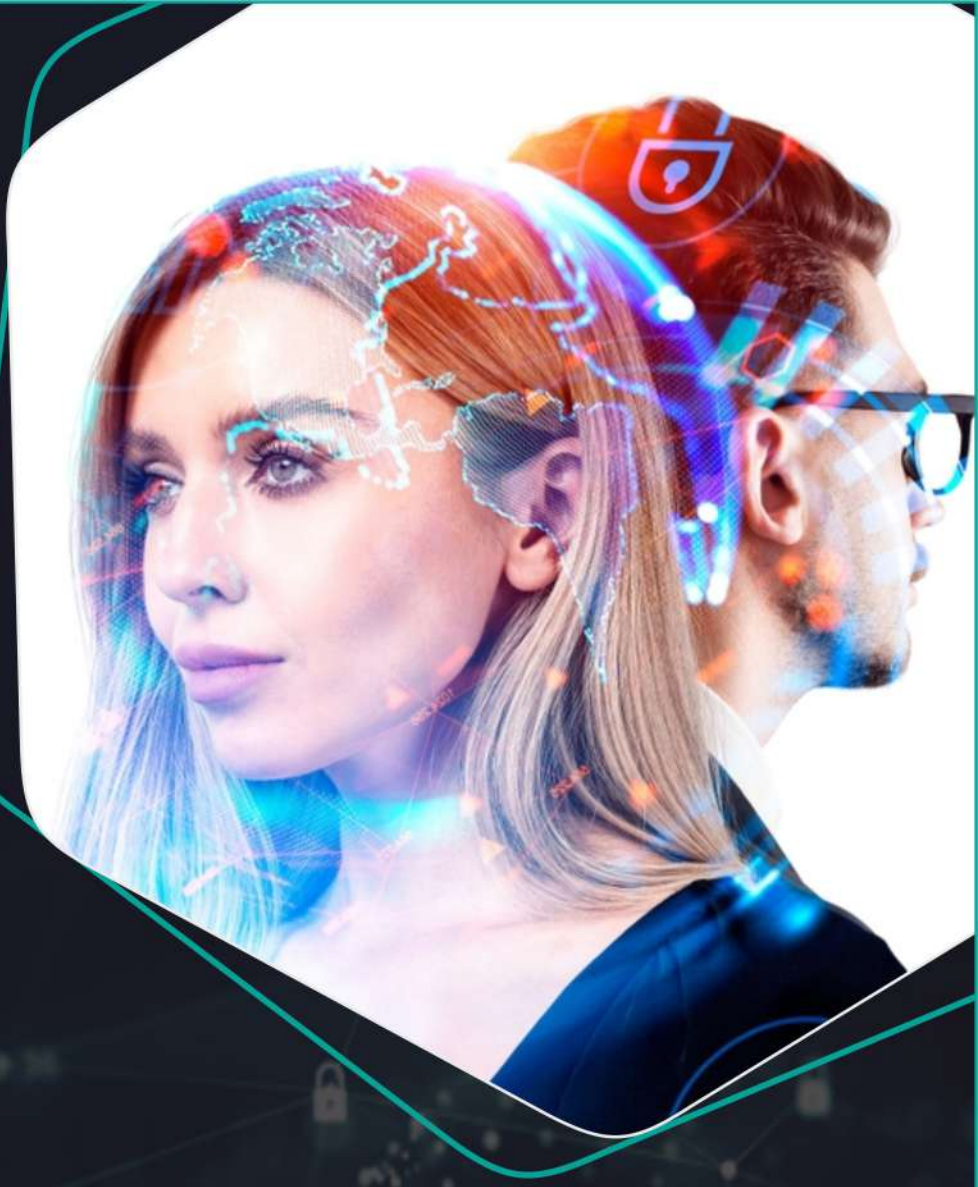
Easy Repetations

Shareable Content

Hybrid Classes

Checkpoint Based Training

24x7 Support



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