

# ISOEH

Indian School Of  
Ethical Hacking

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## Python Programming

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Python is the language for hackers, forensic analyst and penetration testers. It's a simple object oriented and minimalistic language, easy to learn with simple syntax. Most Python programs run unchanged on all major computer platforms including Windows, Linux, Mac, etc.

The Python Standard Library is huge. Most of the security, hacking and forensic tools are written on Python. Python is the language that must be learnt by IT Security professionals.



### Duration

40 hours - 2 classes per week



### Eligibility

Knowledge of C programming (industry-ready.html#cprog) is preferred

Our Top Courses:



Network Associate - CCNA (network.html)

Python (python.html)

CCNA + Ethical Hacking Combination (network-security.html)

## Course Fees

Rs.6,750/-

Inclusive of all taxes

# Course Details

## Getting Started with Python

- Introducing Python
- Installing Python on Windows
- Installing Python on Linux and other Operating Systems

## Flow Control in Python

- The if Statement
- The else Clause
- Using elif Clause
- The while Statement

## Lists in Python

- Creating and Using Lists
- len() with Lists
- in Operator with Lists
- Deleting List Element
- Common list and operations

## Functions in Python

- Defining Functions
- Using Parameters and Return Values
- Using Arguments and Defaults Parameters
- Using Global Variables and Constants

## Object-Oriented Python

- Introduction to Object-Oriented Python
- Creating Classes, Methods and Objects

- Using Constructor and Attributes
- Using Class Attributes and Static Methods
- Understanding Object Encapsulation
- Private Attributes and Methods
- Controlling Attribute Access
- Inheritance
- Polymorphism

## **Types, Variables and Input/Output**

- Using quotes and escape character
- String Concatenation and Repeater Operators
- Using Mathematical Operators with Numbers

## **For Loops and Tuples**

- Using for Loops
- Using Sequence Operators and Functions with Strings
- Using the in Operator
- Indexing and Slicing Strings

## **Dictionaries**

- Using Dictionaries
- Accessing Dictionary values
- Adding, Replacing and Deleting key-value pairs
- Functions: get(), keys(), values() and items()

## **File Input and Output and Exceptions**

- The open Function
- Input from Text Files
- Output to Text Files
- Handling Exceptions

## **Modules**

- Using Modules in Programs
- Writing Modules
- Importing Modules

## **Building hacking tools using python**

- Network Communications
- Creating a socket
- Creating port scanner using python
- Creating a HTTP banner grabber
- Creating packet sniffer under Linux

# Enroll Now

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Previous knowledge in IT:\*

Tentative day from when you wish to start the class:\*



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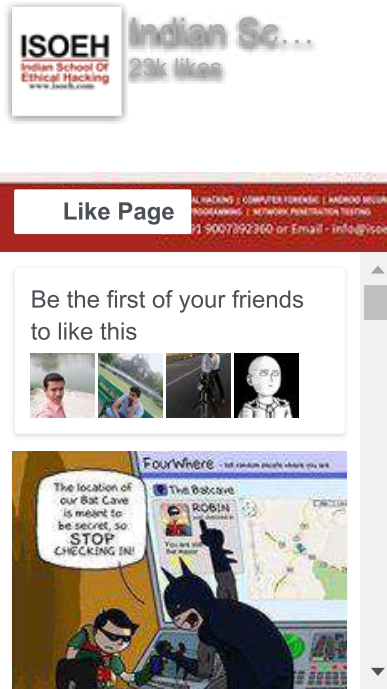
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