

## Course Syllabus

### Developing Ethical Hacking Tools with Python

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## Course Description and Goals

**Course Description:** In this course you will learn to develop your own tools in Python, that will help you in your cybersecurity assessments.

Have you ever wondered why some ethical hackers have an edge over other ethical hackers?

One of the major reasons is that they can code their own tools and automate their security assessment processes. Most often than not they use scripting languages such as Python, which is relatively easy to understand and very powerful when you master it.

Throughout this course you will learn how to combine multiple Python libraries that are related to cybersecurity so that you build an automated process of information gathering.

You will also learn how to code a keylogger, as well as how to write a ZIP password bruteforcer in Python.

**Prerequisites:** To successfully complete this course, you must have a basic understanding of the Python Programming Language.

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**Study Resources:** All the resources, reading materials, guide documents, references, and additional materials are provided alongside relevant lessons

**Course Goals:** By the end of this course, students should be able to:

- ☐ Have knowledge of Python modules and libraries for cybersecurity
- ☐ Comfortably build Python scripts from scratch for cybersecurity assessments
- ☐ Combine methods from different Python cybersecurity-related libraries for automation

**Labs Used:** No labs are required for this course.

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## Course Outline

### **Module 1** | Introduction

Lesson 1: Welcome (2:58)

Lesson 2: Why Cybersecurity Analyst and Pentesters need Python (6:30)

### **Module 2** | Automating Information Gathering

Lesson 1: A Review of the Typical Pentesting Process (5:51)

Lesson 2: Combining Python Modules for Active Info Gathering - Part 1 (9:14)

Lesson 3: Combining Python Modules for Active Info Gathering - Part 2 (9:40)

### **Module 3** | Writing a Keylogger in Python

Lesson 1: Writing a Keylogger in Python - Part 1 (6:04)

Lesson 2: Writing a Keylogger in Python - Part 2 (6:09)

Lesson 3: Writing a Keylogger in Python - Part 3 (6:18)

### **Module 4** | Writing a Keylogger in Python

Lesson 1: Bruteforcing ZIP Passwords with Python - Part 1 (6:17)

Lesson 2: Bruteforcing ZIP Passwords with Python - Part 2 (6:09)

Lesson 3: Bruteforcing ZIP Passwords with Python - Part 3 (4:43)

### **Module 5** | Going Forward

Lesson 1: Additional Resources and Conclusion (2:20)

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