



# **INFORMATION SECURITY AND ETHICAL HACKING**

**4 WEEK ONLINE CERTIFICATE COURSE**

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COURSE FEE – CHF 490

START DATE: **MAY 4.2023**

REGISTER NOW: [info@alss-edu.ch](mailto:info@alss-edu.ch)

# Course Introduction

The course provides an introduction to important concepts in information security. The entire general public data is being stored on and presented by server systems. A large proportion of individuals using remote services on their mobile devices are susceptible to digital attacks to compromise their confidential information. In this course we will be discussing basic security concerns on communication, storage, web, and server systems. The two hour sessions will be held online on the announced dates.

The course is designed and delivered by an international university instructor of Computer Engineering. It is being offered as an open course and can be attended by anyone who is willing to learn basic security principles and concerns in digital platforms.

## Course Outcomes

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Upon completion of this course, you should have a brief understanding on:

- Primary encryption
- Remote access
- Platform security
- Wired and wireless networking
- Security auditing
- Ethical hacking
- Penetration testing
- Denial of service attacks
- Communication security
- Security administration

## Accreditation and certification

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The Academy of Leadership Sciences Switzerland (ALSS) is an international education institution that offers continuing education, further education, and post graduate advanced education courses, workshops and programs focusing on advanced studies in Leadership and Management. The ALSS also offers short courses that are not credit-bearing, and do not lead to formal qualifications. All attendees who attend all presentations of the *Crash Course on Information Security Auditing and Ethical Hacking* will be awarded certificates of successful attendance by the ALSS.

# Course Subjects

- Account Security
- Device Security
- Network Security
- Security Auditing
- Server Security
- Audit Evaluation
- Audit Plan Development
- Audit Stages
- Ethical Hacking
- Penetration Testing
- Internet and Intranet Security Testing
- Securing Web Sites and Applications
- Attacks
- Security Administrator

# Course Structure

Week

1

Introduction to Security (2 hours)

Account Security  
Device Security  
Network Security  
Security Auditing  
Server Security

Week 2	<b>Security Auditing (2 hours)</b> Audit Evaluation Audit Plan Development Audit Stages
Week 3	<b>Security Testing (2 hours)</b> Ethical Hacking Penetration Testing Internet and Intranet Security Testing
Week 4	<b>Maintaining Security (2 hours)</b> Securing Web Sites and Applications Attacks Security Administrator

<b>Duration of the Course:</b> 4 weeks ( <b>every Thursday two hours webinar at 6pm CET Time</b> )	<b>Language</b> English
<b>Start Date</b> <b>May 4.2023</b>	<b>Study Options</b> 100 % online per Zoom or other
<b>Admission Requirements</b> Anyone who has set foot on digital era can enroll for this course.  Internet access and an email address are required.	<b>Tutorial fees for the whole course</b> CHF 490 to be paid at least one week before the course starts.

# Course Leader



**Dr. Murat Özyurt, PhD**

Dr. Murat Özyurt is a computer engineering instructor. He has received his BS degree in computer engineering in 2005, MS degree in software engineering in 2008, and PhD degree in computer engineering in 2019 from Bogazici University. He has worked as a software engineer, architect, team lead in commercial projects as well as R&D project. He is also running his own companies for consultancy and development of software projects. Dr. Özyurt has been working with ALSS since 2023 on IT courses. He has also been lecturing in Bogazici University Computer Engineering Department since 2020 on Introduction to Programming Courses. Dr. Özyurt has assisted similar courses since 2016 with a specialized platform Teaching.Codes, which is designed to address lectures and automated evaluation and grading of student submissions in programming courses. Has has been generating programming courses contents and examples for Java and Python programming languages. His professional experience is based mostly on computer networks, telecommunications infrastructure planning projects, web applications, 3D applications, mobile games, etc. More detailed information about Dr. Özyurt can be found in <https://linkedin.com/in/muratozyurt>. Similarly his recent publications can be accessed through <https://www.researchgate.net/profile/Murat-Ozyurt-2>.