

Ethical Hacking Essentials (EHE)

Dr. Kamal Alieyan

Orientation Show

عرض توجيهي



دورة الهاكر الأخلاقي

Orientation Show

عرض توجيهي

المحاضر:

د. كمال عليان

Who Am I?

➤ Dr. Kamal Alieyan

❖ Assistant Professor in Cybersecurity

- Ph.D from USM, Malaysia, Jun. 2018.
- M.Sc from “University of Arab Academy for Banking and Financial Science” / Jordan, Sep.2005.
- B.Sc from “Mu’tta University” / Jordan, Jun.2003.

Who Am I?

- ❖ How to reach me
 - By email at kamal@midocean.edu.km
(please include “Ethical Hacking”in subject line)
- ❖ Office hours
 - Discussion Time (Sunday at 9:00 PM) every week



https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=Kamal+Alieyan&btnG=&oq=kama



<https://www.scopus.com/authid/detail.uri?authorId=57000386100>



<https://orcid.org/0000-0002-9021-3151>

The course that will be taught

- Ethical Hacking Essentials (EHE) is a security program covering the fundamental concepts of information security and ethical hacking.
- It equips students with the skills required to identify the increasing information security threats which reflect on the security posture of the organization and implement general security controls.

Primary Goal of This Course

- This course designed to help students to establish and govern minimum standards for credentialing entry-level information security specialists in ethical hacking measures, inform the public that credentialed individuals meet or exceed the minimum standards, and reinforce ethical hacking as a unique and self-regulating profession.

Outline of Course

EHE Course Outline

01 Information Security Fundamentals

02 Ethical Hacking Fundamentals

03 Information Security Threats and Vulnerability Assessment

04 Password Cracking Techniques and Countermeasures

05 Social Engineering Techniques and Countermeasures

06 Network Level Attacks and Countermeasures

07 Web Application Attacks and Countermeasures

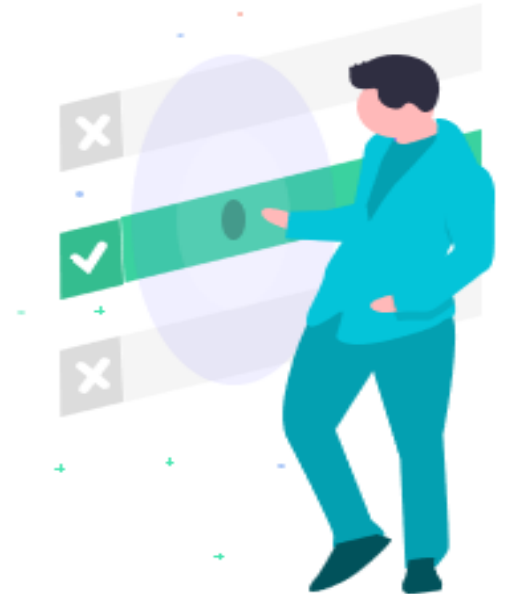
08 Wireless Attacks and Countermeasures

09 Mobile Attacks and Countermeasures

10 IoT and OT Attacks and Countermeasures

11 Cloud Computing Threats and Countermeasures

12 Penetration Testing Fundamentals



Units of Course Contents

Lecture Structure:

#	Course Unit	No.of Weeks	Contact Hours
1	Lecture_1_ Module 01 – Information Security Fundamentals	1 st	3
2	Lecture_2_ Module 02 – Ethical Hacking Fundamentals	2 nd	3
3	Lecture_3_ Module 03 – Information Security Threats	3	3
3, 4	Lecture_4_ Module 03 Vulnerability and Vulnerability Assessment Module 04- Password Cracking Techniques and Countermeasures	4	3
5	Lecture_5_ Module 05 Social Engineering Techniques and Countermeasures	5	3
6	Lecture_6 Module 06- Network Level Attacks and Countermeasures	6	3
7	Lecture_7 Module 07- Web Application Attacks and Countermeasures	7	3
7, 8	Lecture_8 Module 07 - SQL Injection Attacks and Countermeasures Module 08 Wireless Attacks and Countermeasures	8	3
9	Lecture_9_ Module 09 Mobile Attacks and Countermeasures	9	3

Course Information

▶ Assessment Method:

▶ Short Exam

- ▶ 72% marks
 - ▶ Count of short Exam 9 (Weekly)
 - ▶ 8 Marks for every each of short Exam.
- ▶ 28% Final Examination



Thank You

