

Penetration Test and Ethical Hacking Master of Science in Cybersecurity

Dr. Nermin Hamza Ewais

Orientation show

عرض توجيہي





Who Am I?

➤ **Dr. Nermin Hamza Ewais**

❖ Associate Professor in computer science

- Ph.D from Cairo University 2010
- PHD Thesis: "A novel security system for computer networks"
- M.Sc from Cairo University, 2005
- B.Sc from Cairo University , 2000

Dr. Nermin Hamza Ewais

Associate Professor



جامعة القاهرة
FACULTY OF ENGINEERING
CAIRO UNIVERSITY



Who Am I?

- ❖ Work.
Cairo University – King Abdulaziz University
- ❖ Training.
CEH – CHFI- Academic Courses
- ❖ Office hours

- ❖ How to reach me
 - By email by university tickets
(please include “IT Forensic” in subject line)



جامعة الملك فهد
KING FAHD UNIVERSITY OF PETROLEUM & MINERALS



The course that will be taught

Penetration Test and Ethical Hacking



جامعة الذكية
SMART UNIVERSITY



Penetration Test and Ethical Hacking

- *The Penetration testing and Ethical Hacking course provide the skills required for a student to learn how to test the system.*
- A penetration test or pen-test is a test evaluating the strengths of all security controls on the computer system. Penetration tests evaluate procedural and operational controls as well as technological controls.





Primary Goal of This Course

➤ **Learning Outcomes:**

- Demonstrate knowledge of various vulnerabilities in network applications.
- Practice awareness of various malicious content and guiding ways for protection against the same.
- Demonstrate knowledge of various forms of attacks.
- Recall judicious and ethical use of various tools.
- Expertise in the techniques of system hacking and hacking over a wireless network.



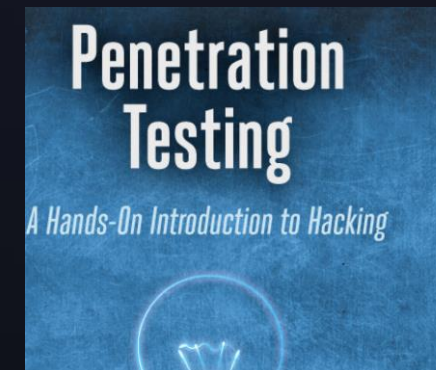
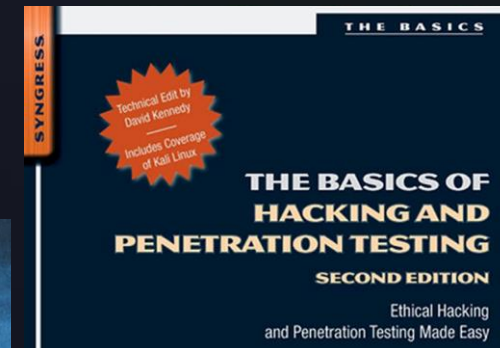
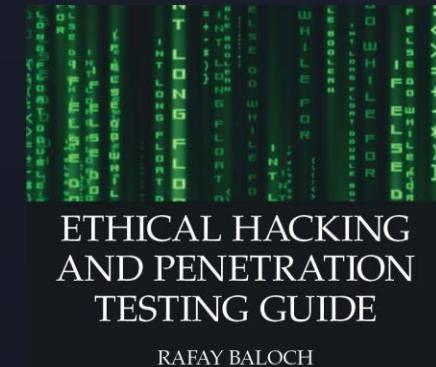
Learning Resources:

➤ Credit Hours:

3 credit hours.

➤ Required Textbook:

1. ETHICAL HACKING AND PENETRATION TESTING GUIDE, RAFAY BALOCH, 2015 by Taylor & Francis Group, LLC
2. The Basics of Hacking and Penetration Testing, Ethical Hacking and Penetration Testing Made Easy, Second Edition, Dr. Patrick Engebretson, David Kenned Technical Editor, 2013 Elsevier Inc. All rights reserved
3. Penetration testing A Hands-On Introduction to Hacking, Georgia Weidman, 2014 by Georgia Weidman.



جامعة أم القرى
UMM AL-QURA UNIVERSITY



Units of Course Contents

➤ Lecture Structure:

Module	Course Unit	No.of. Weeks	Contact Hours
1	Lecture1 Introduction to Penetration test	1 st	3
2	Lecture2 Reconnaissance and Information gathering	2 nd	3
3	Lecture3 Scanning	3	3
4	Lecture4 Exploitation	4	3
5	Lecture5 Password Cracking and Network Sniffing	5	3
6	Lecture6 DOS Attack and Social Engineering	6	3
7	Lecture7 SQL Injection	7	3
8	Lecture8 Session Hijacking	8	3
9	Lecture9 Cross site scripting	9	3
10	Lecture10 Post-exploitation and Penetration Testing Report	10	3



Course Information

➤ Assessment Method:

▶ Short Exam

- ▶ 80% marks
 - ▶ Count of short Exam 10 (Weekly)
 - ▶ 8 Marks for each of short Exam.

▶ 20% Final Examination

-- اللغة الأساسية في المحاضرات هي:
اللغة الإنجليزية
-- الاختبارات باللغة الإنجليزية مع وجود
ترجمة للسؤال. **C.**

exam



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