

IT Forensics

Master of Science in Cybersecurity

Orientation : CYB 770

Prepared by
Dr. Nermin Hamza Ewais

Who am I ? Chapter

➤ **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

❖ Previous Work.

Cairo University – King Abdulaziz University

❖ Training.

CEH – CHFI- Academic Courses

Dr. Nermin Hamza Ewais

Associate Professor



The course that will be taught

IT forensics



IT forensics

- *This course is designed to provide a basic foundation in the field of digital forensic for students in the science of crime scene investigation.*
- *The student will gain experience in the use of various analytical methods that are used to analyze digital evidence during criminal investigations.*



Primary Goal of This Course

➤ *Learning Outcomes:*

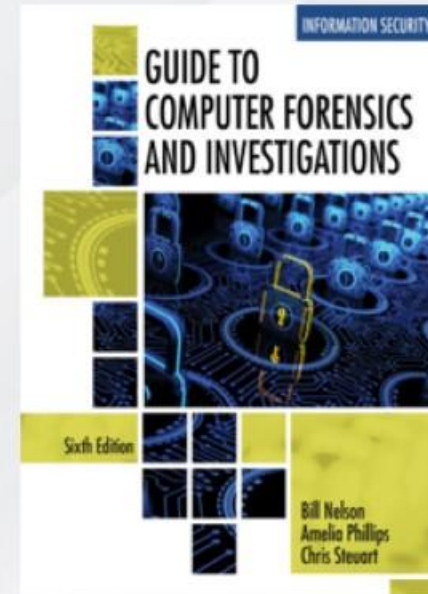
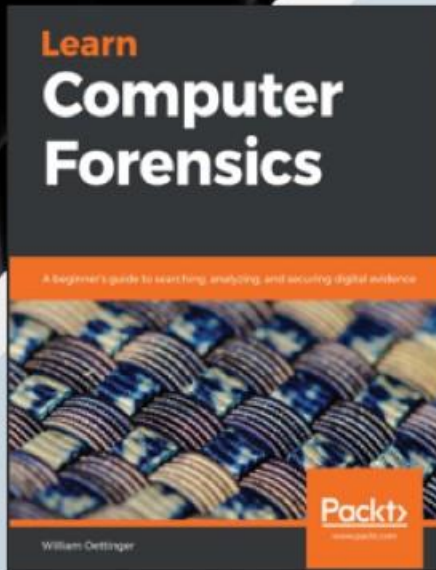
- Understand what is digital forensic and its important
- Explain the process of digital forensics analysis
- Gain an understanding of the tradeoffs and differences between various digital forensic tools
- Understand the workings of file systems and operating system
- Create disk images, recover deleted files, and extract hidden information
- Write the final report.

Penetration Test and Ethical Hacking

➤ **Credit Hours:** 3 credit hours.

➤ **Required Textbook:**

1. Learn Computer Forensics , William Oettinger ,2020 Packt Publishing
2. Guide to Computer Forensics and Investigations: Processing Digital Evidence 6th Edition Bill Nelson , Amelia Phillips and Christopher Steuart Cengage Learning, Inc 2019



Units of Course Contents

Module	Course Unit	No.of. Weeks	Contact Hours
1	Lecture1 Introduction to IT Forensics	1 st	3
2	Lecture2 The Forensic Analysis Process	2 nd	3
3	Lecture3 Acquisition of Evidence	3	3
4	Lecture4 Computer System	4	3
5	Lecture5 Operating systems	5	3
6	Lecture6 Memory	6	3
7	Lecture7 Network and E-mail	7	3
8	Lecture8 Database	8	3
9	Lecture9 Cloud ,Web and Mobile	9	3
10	Lecture10 Reporting	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



exam

وَفَقْرًا كَرِيمًا لِلَّهِ

Thank You