

Computer Forensics

- **Course number and name:**

CC 537 – Computer Forensics

- **Credits and contact hours**

Credits Hours: 3Hrs

Contact Hours: In Lecture 2Hrs, and In Tutorial 1Hrs

- **Instructor’s or course coordinator’s name**

Coordinator Name: Dr. Sherif Fadel

- **Text book, title, author, and year**

- Linda volonino, Reynaldo anzalduwa “Computer Forensics: principles and practices”, Prentice Hall, Latest edition

- **Specific course information**

- a. **Catalog description**

Conducting a computer forensics investigation - Examining the layout of a network - Finding hidden data - Capturing images - Identifying, collecting, and preserving computer evidence - Understanding encryption and examining encrypted files - Documenting the case - Evaluating common computer forensic tools - Presenting and analyzing computer evidence.

- b. **prerequisites or co-requisites**

Prerequisites: Senior Standing

- c. **Types of Course (required, elective, or selected elective course) in the program**

Elective Course

- **Specific goals for the course**

- a. **Specific outcomes of instruction**

After the completion of this course the students will be able to:

	Course Learning Outcomes	SO
1	Understand the basic skills and available certifications in computer forensics.	A
2	Analyze searched for and bookmarked data, and Analyze signatures and hashes	F,K
3	Find the Loopholes in a computer system	A,H,K
4	Document electronic evidence	D

Topics to be covered

- Computer Forensics: an overview
- Computer Hardware overview
- File Systems
- Conducting a computer forensics investigation
- Acquiring Digital Evidence
- File Signatures analysis and hash analysis
- Windows operating system artifacts
- Creating paperless reports
- Computer Forensic Investigations - Document Forensics
- Computer Forensic Investigations - Mobile Forensics
- Computer Forensic Investigations - Network Forensics
- Computer Forensic Investigations - Investigating X-Files