



EASTERN MEDITERRANEAN UNIVERSITY
SCHOOL OF COMPUTING AND TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY
COURSE POLICY SHEET



Course Code	ITEC295	Course Title	Investigation of Computer Forensics
Semester	2019/20 Fall	Language	English
Category	University /Area Elective	Level	Second Year
Workload	180 Hours	Teaching Format	2 Hours Lecture, 2 Hours Laboratory
EMU Credit	(3,0,1) 3	ECTS Credit	6
Prerequisite(s)	-	Course Web	http://staff.emu.edu.tr/ibrahimadeshola/

Instructors(s)	Ibrahim Adeshola		
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Course Description
This course focuses on the use of the most popular forensics tools and provides specific guidance on dealing with civil and criminal matters relating to the law and technology. Includes discussions on how to manage a digital forensics operation in today's business environment.

General Learning Outcomes
On successful completion of this course students should be able to: <ul style="list-style-type: none">Explain the digital forensics profession and investigations.Describe data acquisition, processing crime and incident scenes.Investigate cell phone and mobile device.Investigate emails and computer history.Write report for high tech investigations.Explain the concepts of virtual machine and cloud forensics.Describe the ethics for the investigator and expert witness.

Teaching Methodology / Classroom Procedures
<ul style="list-style-type: none">Each week there are two hours lecture sessions, and two hours lab sessions.Laboratory sessions are organized in parallel to lecture given in classrooms. During the lab sessions, students will apply a systematic approach to an investigation, conduct different investigations and submit reports for evaluation each week.Different application software's will be used during the lab sessions to conduct an investigation and report writing.

Course Materials / Main References
<p>Text Book: Bill Nelson, Amelia Phillips, Christopher Steuart, <i>Guide to Computer Forensics and Investigations Fifth Edition</i>. Cengage Learning, 2016, ISBN-13: 978-1-285-06003-3.</p> <p>Resource Books:</p> <ol style="list-style-type: none">Marjie T. Britz, <i>Computer Forensics and Cyber Crime: An Introduction (3rd Edition)</i>.Darren R. Hayes, <i>A Practical Guide to Computer Forensics Investigations (Pearson IT Cybersecurity Curriculum (ITCC))</i>. <p>Lecture Notes:</p>

All course materials are also available online in PowerPoint Slide.

Weekly Schedule / Summary of Topics

Week 1	Understanding the Digital Forensics Profession and Investigations
Week 2-3	Processing Crime and Incident Scenes
Week 4	Current Computer Forensics Tools
Week 5	Recovering Graphics Files
Week 6	Computer Forensics Analysis and Validation
Week 7	Virtual Machine and Cloud Forensics
	Midterm Examinations Period
Weeks 10	Email Investigations
Weeks 11	Cell Phone and Mobile Device Forensics
Week 12	Cloud Forensics Report Writing for High Tech Investigations
Week 13-14	Expert Testimony in High Tech Investigations Ethics for the Investigator and Expert Witness
	Final Examinations Period

Requirements

- Each student can have only one make-up exam. One who misses an exam should provide a medical report or a valid excuse within 3 days after the missed exam. The make-up exam will be done at the end of the term and will cover all the topics. No make-up exam will be given for the quizzes.
- Students who do not pass the course and fail to attend the lectures regularly may be given NG grade.
- Instructions for the submission of assignment will be posted on the course website. It is each student's responsibility to read and follow the instructions. Failure to follow the submission instructions may result in the assignment receiving a mark of zero.

Method of Assessment

Evaluation and Grading	Assignment	Quizzes	Lab	Midterm Exam	Final Exam
Percentage	9%	20 %	16 %	25 %	30 %