AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF SOCIAL SCIENCES
MANAGEMENT INFORMATION SYSTEMS
MANAGEMENT INFORMATION SYSTEMS
MANAGEMENT INFORMATION SYSTEMS MASTER
COURSE INFORMATION FORM

Course Title		Forensic Information Engineering and Reporting							
Course Code		MIS513		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	7	Workload	172 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to obtain information about the selection, planning, correct structuring of the information systems and necessary security measures to identify and prevent attacks. It is aimed to collect the evidence related to cyber crimes, to take the forensic copies, to analyze and to report them, and to evaluate the cases encountered in legal terms.							
Course Content		Introduction to cybercrime, forensic information technologies, data recovery from disk and file systems, evidence collection, ownership verification, data validation, storage and protection, recognition and identification, operating system architectures, analysis of file structures, network analysis, system analysis, forensic information methodology, current developments in forensics.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Lec. Türkay HENKOĞLU							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Sam Brown, Forensic Engineering: An Introduction to the Investigation, Analysis, Reconstruction, Causality, Risk, Consequence, and Legal Aspects of the Failure of Engineered Products, 1995, US
2	Türkay Henkoğlu, Adli Bilişim: Dijital Delillerin Elde Edilmesi ve Analizi, Pusula Yayıncılık, 2011, İstanbul

Week	Weekly Detailed Course Contents	
1	Theoretical	The basic concepts of forensic engineering
2	Theoretical	Information crimes and forensic information technologies
3	Theoretical	Evidence collection, ownership verification, data validation
4	Theoretical	Data recovery from disk and file systems
5	Theoretical	Storage, protection, recognition and identification
6	Theoretical	Analysis of file structures
7	Theoretical	Network analysis
8	Theoretical	Autonomous system analysis
9	Intermediate Exam	Midterm Exam
10	Intermediate Exam	Midterm Exam
11	Theoretical	Operating systems analysis
12	Theoretical	Configuration of start disks and configuration analysis
13	Theoretical	Preserving the nature of evidence of information on information
14	Theoretical	Current developments in forensic computing
15	Final Exam	Final Exam
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	2	3	65
Assignment	13	2	0	26
Term Project	1	20	2	22
Individual Work	13	2	0	26
Quiz	2	0	5	10

Midterm Examination	1	9	1	10
Final Examination	1	12	1	13
		Total Workload (Hours)		172
		[Total Workload (Hours) / 25*] = **ECTS**		7

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Knows the concepts of cyber crimes and informatics crimes.
2	Gains knowledge of legal regulations related to collection, classification and analysis of evidence related to cyber crime.
3	Gains knowledge of technical processes related to collection, classification and analysis of evidences related to cyber crimes
4	Has technical knowledge and skills in creating forensic copies
5	Knows reporting methods and techniques

Programme Outcomes *(Management Information Systems Master)*

1	Be aware of the different types of ınformation technologies and systems using in business, have enough knowledge to design a suitable system
2	Analyse the needs for an information systems and have control over the processes at the analysis, design and implementation stages of the database that belongs to the system
3	Convey information about current trends and their own studies both verbally and visually ways.
4	Be able to follow current developments in modern business techniques and technologies, especially information technologies
5	Understand the interaction between his departmant and other relational departmants, if necessary make a team, take responsibility and do the works with team.
6	Know the information technologies and systems using in different types of business, if necessary take the system responsibility.
7	Be aware of the social transformation especially in their own field and social, legal and moral responsbilities belongs to other work field.
8	Develop their knowledge to the level of expertise which they learn them in license level.
9	Carry out a work which requires an expertness in their field.
10	Construct and perform an academic work.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	4	4	4	4	4
P2	4				5
P3	5	4	4	3	4
P4	5		4	3	4
P5	5	4	4	3	4
P6	5		4	3	4
P7	5	4	4	4	5
P8	5	4	4	4	5
P9	5	4	4	4	5
P10	4	4	4	4	5