



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

Course Title	Computer and Network Security								
Course Code	MIS526	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	7	Workload	179 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	Knowing the elements that cause security vulnerabilities in information systems and discussing how to control these elements.								
Course Content	Knowing the elements that cause security vulnerabilities in information systems and discussing how to control these elements.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	Bilgi Güvenliği ve Kişisel Verilerin Korunması Türkay Henkoğlu
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Information Systems Security and Control
2	Theoretical	Computer Networks and Network Hardware
3	Theoretical	Network Protocols
4	Theoretical	Operating Systems and System Architecture
5	Theoretical	Linux / Unix and Windows Network and System Commands
6	Theoretical	Port Scan Techniques and Network Monitoring (Sniffing)
7	Theoretical	Introduction to Internet and Server Architecture
8	Theoretical	Firewalls: Network and Server Security
9	Intermediate Exam	midterm
10	Theoretical	Firewall Architects
11	Theoretical	Database Security
12	Theoretical	Application Security and Antivirus Architects
13	Theoretical	Risk management
14	Theoretical	Risk management
15	Final Exam	Final

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	16	3	3	96
Individual Work	16	1	2	48
Midterm Examination	1	10	5	15
Final Examination	1	15	5	20
Total Workload (Hours)				179
[Total Workload (Hours) / 25*] = ECTS				7

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	To be able to access information, evaluate, interpret and apply information by making scientific research with the expansion and deepening of information in a different area in the Information Systems
2	To be able to develop knowledge with scientific methods using limited or incomplete data in the Information Systems and to use it with scientific, social and ethical responsibility
3	To solve a problem in the Information Systems independently, to develop a solution method, to solve it, to evaluate the results and to apply them when necessary
4	In complex situations that are unforeseen to be encountered in applications in Information Systems, it is possible to develop new strategic approaches and take responsibility and produce solutions
5	To be able to develop strategy, policy and implementation plans in relation to information systems and to be able to evaluate the obtained results within the framework of quality processes
6	To be able to transfer the current developments and their own studies in the Information Systems to the groups outside the Information Systems and the Information Systems in a written, oral and visual manner

**Programme Outcomes** (*Management Information Systems Master*)

1	Be aware of the different types of information 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 department and other relational departments, 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 responsibilities 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	L6
P1	5	5	4	4	4	5
P2	5			5		5
P3	5	5	4	5	4	5
P4	5	5	5	5	4	5
P5		5		5	4	4
P6		5	4		4	4
P7	5	5	4	5	5	5
P8	5	5	5	5	5	5
P9	5	5	5	5	5	4
P10	5	5	5	4	4	4

