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

Course Title		Network and Communication Technologies						
Course Code		MIS517		Couse Level		Second Cycle (Master's Degree)		
ECTS Credit	7	Workload	180 *(Hours)*	Theory	3	Practice	0	Laboratory	0

Objectives of the Course	Current network technology creates the infrastucture of modern communication. In this course, descriptions and therioes about computer network and security will be handled. Students are going to gain some skills and experiences about the networking basics, network switching, IPv4 addressing and infrastructure, IPv4 routing and wide field network during the lesson. Study fields consist ; TCP/IP ve OSI network models, LAN ve WAN fundamentals, wireless LANs, IPv4 addressing and subnet masking, routing, WAN concept etc.
Course Content	History of data communication and network management, local network switcihng, wireless Networks, IPv4 addressing, analysis of IPv4 networks, design of subnet masks, concept of IPv4 routing protocol, structure of wide field network buid up the content of the lesson.
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	Modern Donanım Mimarisi - Türkay Henkoğlu

Week	Weekly Detailed Course Contents	
1	Theoretical	History of Data Communication and Network Management
2	Theoretical	Network Fundamentals
3	Theoretical	TCP/IP and OSI Network Models
4	Theoretical	LAN and WAN Networks Basis
5	Theoretical	Local Field Network Switching
6	Theoretical	Wireless Local Field Networks
7	Theoretical	IPv4 Addressing and Subnet Masking
8	Intermediate Exam	MID TERM EXAM
9	Theoretical	Design of Subnet Mask
10	Theoretical	Conversion and Analysis of Subnet Mask
11	Theoretical	IPv4 Routing
12	Theoretical	Wide Field Network
13	Theoretical	IPv6 Transition Process
14	Theoretical	Overall Evaluation
15	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	16	3	3	96
Individual Work	16	1	3	64
Midterm Examination	1	1	5	6

Final Examination	1	9	5	14
			Total Workload (Hours)	180
			[Total Workload (Hours) / 25*] = **ECTS**	7

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Can understand network fundamentals
2	Identify the equipments used in computer network technology
3	Knows TCP/IP ve OSI network models
4	Knows the basic principles of IPv4 addressing and routing
5	Can do local switching with ethernet
6	Knows wireless local field networks

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	L6
P1	4	3	4	4		4
P2	4	4	4	4	4	5
P3		4	4	4	4	5
P4	5	4	4	4	4	4
P5	4	4	4	4	4	
P6	4	4	4			4
P7	4	4	4		5	4
P8	4	4	5	4	5	4
P9	4	4	4	4	5	4
P10	4	4	4	4	5	4