

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Network Equipment and P			ripherals					
Course Code	BPR190		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 2	Workload 5	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course The aim of this course is to enable students to explain management concepts and network management com					network des	ign, computer net	work	
Course Content  At the end of this course, the student will be able to install a computer laboratory, new terminal, printer and so on. will be able to solve the probler configure the server in the laboratory, to create new users, to edit the rights Part-I. Computer Network Design 1. Analysis of Business Targets and Con Technical Targets and Constraints 3. Determination of Characteristics of C of Network Traffic 5. Designing a Network Topology 6. Designing Model for Bridge, Switching and Selecting Routing Protocols 8. Developing Network Management Strategies 9. Selecting Technologies and Network Devices for Selecting Technology and Network Devices for Corporate Networks Section Management 1. Introduction to Computer Network Management 2. Network Configuration Management 5. Security Management 6. Performance Management 8. Network Management Protocols				he problems t the rights a s and Const istics of Cur Model for V Network Se Devices for rks Section- 2. Network I	that may occur, to and properties of the raints 2. Analysis of rent Internetwork of reification and Na ecurity and Networks Campus Networks II. Computer Networks Directives 3. Error	ne user. of 1. Design ming 7. k 10. ork Control 4.		
Work Placement	N/A							
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	ation), Discussi	on, Individua	al Study, Problem	Solving
Name of Lecturer(s)								

Assessment Methods and Criteria					
Method		Quantity	Percentage (%)		
Midterm Examination		1	40		
Final Examination		1	70		

## **Recommended or Required Reading**

- 1 Introduction to the network systems Hulusi Turgut Pusula Yayınları
- 2 Computer Networks and Communication Abdullah Kuzu Edt. Nobel Y.

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Computer Networks General Introduction and Definitions
2	Theoretical	Use of Design Methodology from Top to Bottom, Analysis of Business Objectives, Analysis of Business Constraints, Analysis of Technical Objectives and Constraints
3	Theoretical	Describing the Infrastructure Character of the Computer Network, Checking the Health of the Existing Network, Tools Used to Extract the Characteristics of the Existing Network, Defining the Traffic Flow, Defining the Traffic Load
4	Theoretical	Identifying Traffic Behavior, Characterizing Service Quality Requirements, Designing a Hierarchical Network, Designing Campus Network Topology
5	Theoretical	Company Network Topology Designing, Physical Security Planning, Network Layer Addressing Recommendations, Designing a Model for Naming
6	Theoretical	Selecting Decision Making, Bridging and Switching Methods in Top-Down Network Design Process, Choosing Between Routing Protocols
7	Theoretical	Yukarıdan Aşağıya Ağ Tasarım Sürecinde Karar Verme, Köprüleme ve Anahtarlama Metodlarının Seçimi, Yönlendirme Protokolleri Arasında Seçim Yapma
8	Theoretical	Selecting Decision Making, Bridging and Switching Methods in Top-Down Network Design Process, Choosing Between Routing Protocols
9	Intermediate Exam	midterm
10	Theoretical	Selection of Technologies and Devices for Campus Networks, LAN Cabling Design, LAN Technologies, Selection of Devices for Campus Network Design
11	Theoretical	Technology and Devices Selection for Company Networks, Remote Access Technologies, Wide Area Network Technologies
12	Theoretical	Introduction to Network Management, Creating a Data Network, Network Management System Definition, Network Management System Architecture, Present Status of Network Management Systems, Network



13	Theoretical	Network Orientations, Services Provided by Carriers, Bandwidth Management, Factors Stiffening Standardization, Benefits of Error Control Management Application, Success of Error Control Management,
14	Theoretical	Ağ Yönelimleri, Taşıyıcılar Tarafından Sunulan Hizmetler, Bant Genişliği Yönetimi, Standardizasyonu Zorlaştıran Etkenler, Hata Kontrol Yönetim Uygulamasının Yararları, Hata Kontrol Yönetiminin Başarımı,
15	Theoretical	Network Management Protocols, History of Network Management Protocols, Standard Protocol Development, SNMP, CMIS / CMIP, CMOT
16	Final Exam	Final Examination

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Assignment	1	0	5	5	
Term Project	1	0	5	5	
Midterm Examination	1	5	1	6	
Final Examination	1	5	1	6	
	50				
[Total Workload (Hours) / 25*] = <b>ECTS</b>					
*25 hour workload is accepted as 1 ECTS					

Learning Outco	mes
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- 1 Explain network management hardware.
- 2 Explaining Network Management System Architecture.
- 3 Expressing the Infrastructure Character of Computer Network.
- 4 Explain the problems encountered in the implementation of network management system.
- 5 Solving the problems encountered in the network management system.

## **Programme Outcomes** (Office Mangement and Executive Assistantship)

- 1 The ability of using information and communication tools and the other vocational tools and techniques.
- 2 The ability of planning and applying vocational process.
- 3 The ability of communicating in foreign language.
- 4 The ability of vocational self-confidence.
- 5 The ability of enteprenurism.
- 6 The ability of using theorical field information at the practice.
- 7 The ability of managing a process that provides the needs.
- 8 The ability of working in groups including interdisciplinary.
- 9 The ability of defining problems and solving them in vocational practice.
- 10 The awareness of vocational ethic and responsibility.
- 11 The awareness of necessity of life-long learning and the ability to make come true this.
- 12 The ability of having information about sectoral problems.
- 13 The ability of understanding vocational legal regulation and applying.
- 14 The ability of having an effective communication.
- 15 Social, cultural and social responsibilities of the grip, and the ability to apply to adopt.

## 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

