

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Network Equipr	ment and Pe	ripherals					
Course Code	BPR190		Couse Leve		Short Cycle (Associate's	Degree)	
ECTS Credit 2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of this management c					network des	ign, computer net	work
Course Content	laboratory, new configure the se Part-I. Compute Technical Targ of Network Trat Bridge, Switchi Management S	/ terminal, pr erver in the la er Network D ets and Cons ffic 5. Desigr ng and Seleo	inter and so of aboratory, to Design 1. Ana straints 3. De hing a Networ cting Routing Selecting Teo	on. will be create ne lysis of Bu terminatio k Topolog Protocols	able to solve t w users, to edi usiness Targets n of Character y 6. Designing 8. Developing	he problems t the rights a s and Const istics of Cur Model for V Network Se	tory, maintain an e that may occur, to nd properties of th raints 2. Analysis of rent Internetwork (erification and Na ecurity and Networks Campus Networks	o ne user. of 4. Design ming 7.
	Management 1 Configuration N Management 8	. Introduction	to Compute 5. Security N	ces for Co r Network lanageme	Management	rks Section- 2. Network [II. Computer Netw Directives 3. Error ment 7.Using Leve	10. ork Control 4.
Work Placement	Management 1 Configuration M	. Introduction	to Compute 5. Security N	ces for Co r Network lanageme	Management	rks Section- 2. Network [Directives 3. Error	10. ork Control 4.
Work Placement Planned Learning Activitie	Management 1 Configuration M Management 8 N/A	. Introductior lanagement .Network Ma	n to Compute 5. Security N nagement P	ces for Co r Network lanageme rotocols	Management ent 6.Performa	rks Section- 2. Network [nce Manage	Directives 3. Error	10. ork Control 4. el

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

Recommended or Required Reading

Introduction to the network systems Hulusi Turgut Pusula Yayınları
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
		Тс	otal Workload (Hours)	50
		[Total Workload (Hours) / 25*] = ECTS	2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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 (Machinery)

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1	To be able to know general properties and usage areas of industrial materials and make selection.
2	Design of machine elements.
3	To be able to make production using machining and welding machines without machining.
4	To be able to make measurement and quality control processes with machine tools for measuring and control equipment.
5	To be able to make necessary corrections in order to determine the mistakes by using the necessary non-destructive test methods in welded parts and to eliminate these mistakes.
6	Preventive measures to prevent the occurrence of these faults by preliminarily determining the faults that will occur in the machines as statistical data and to make necessary interventions in case of breakdown.
7	They can make drawings of work pieces on CAD station and apply them on CNC looms. Ability to operate and use CAD / CAM and AUTOCAD package programs.
8	To be able to transfer engineering science and technology to practice by making calculations in the direction of scientific principles.
9	It can repair the elements in pneumatic and hydraulic systems which are indispensable elements of automatic control systems and can regulate their work.
10	The student who is trained as a machine technician during the whole program knows that industrial task definition in the field of work is error finding, problem solving, decision making, planning of functions and activities and they can be achieved by aiming to acquire these characteristics.

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

	L1	L2	L3	L4	L5
P10	1	1	1	1	1

