Course Syllabus

Code - Course Title	**BTÖ234 - Computer Network Systems**
Course Type	IV. SEMESTER
Laboratory + Practice	2+0
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Required Courses

Mode of Delivery	The mode of delivery of this course is face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	BTÖ408 Computers and Internet Safety
Work Placement	none

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		NETWORK and DATA COMMUNICATION what is network? Advantages and Disadvantages of Network Network Components Network Classifications Fundamentals of Data Communication in Network Data Transmission Modes	
Week - 2		DATA TRANSMISSION ENVIRONMENT Data Transmission Environment Wireless Network	
Week - 3		NETWORK HARDWARE Selection Factors of Network Hardware Main Network Hardware -Server -Network Interface Cards -HUB -Switch -Bridge -Router -Gateway -Repeater -Firewall Network Hardware components in OSI Layer	
Week - 4		NETWORK TOPOLOGIES Physical Topologies -Bus topologies -Star topologies -Ring topologies -Tree topologies -Mesh topologies -Cellular topologies	
Week - 5		NETWORK TOPOLOGIES Logical Topologies -Logical ethernet (bus) topologies -Logical ring topologies -FDDI -ATM	
Week - 6		NETWORK TOPOLOGIES Logical Topologies -Logical ethernet (bus) topologies -Logical ring topologies -FDDI -ATM	
Week - 7		NETWORK PROTOCOLS OSI Reference Model and Layers -Physical Layer -Data Link Layer -Network Layer -Transport Layer -Session Layer -Presentation Layer -Application layer	
Week - 8		NETWORK PROTOCOLS Error Determination, Flow Control and Error Correction Methods Protocol Groups TCP/IP Protocol Group	
Week - 9		IP ADDRESSING and ROUTING IP Addressing and Subnet Mask IP Routing	
Week - 10		WIRELESS NETWORK TECHNOLOGIES Wireless Network Basics Establisment of Wireless Network Mobile Communication Wireless Network Security Wireless Technologies -Bluetooth -WAP -SMS -GPRS -UMTS	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 11		WIRELESS NETWORK TECHNOLOGIES Wireless Network Basics Establisment of Wireless Network Mobile Communication Wireless Network Security Wireless Technologies -Bluetooth -WAP -SMS -GPRS -UMTS	
Week - 12		NETWORK MANAGEMENT Network Address Management Tools User Management and authorization	
Week - 13		COMPUTER NETWORKS AND INTERNET Growth of Internet Structure of Internet and Mechanism of Internet Access of Internet Internet Tools Internet and Society Internet and Education	
Week - 14		COMPUTER NETWORKS AND INTERNET Growth of Internet Structure of Internet and Mechanism of Internet Access of Internet Internet Tools Internet and Society Internet and Education	

Learning Outcomes

#	Learning Outcome
1	Recognize computer networks.
2	Recognize essential computer netwok protocols.
3	Constitute a computer network.
4	Manage a computer network.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.