# Data Communication BLM3051



Furkan ÇAKMAK

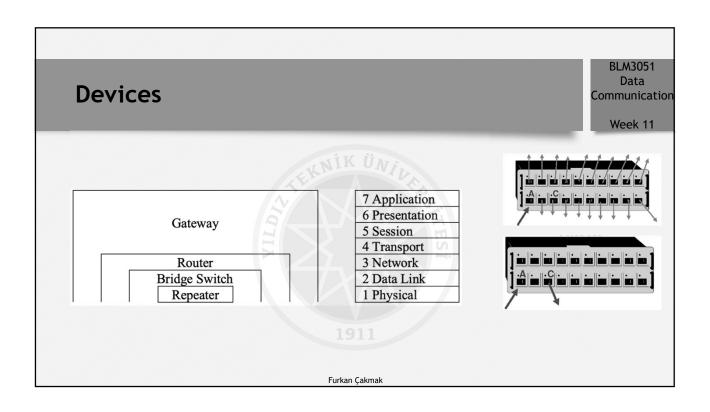
## Lecture Information Form - Weekly Subjects

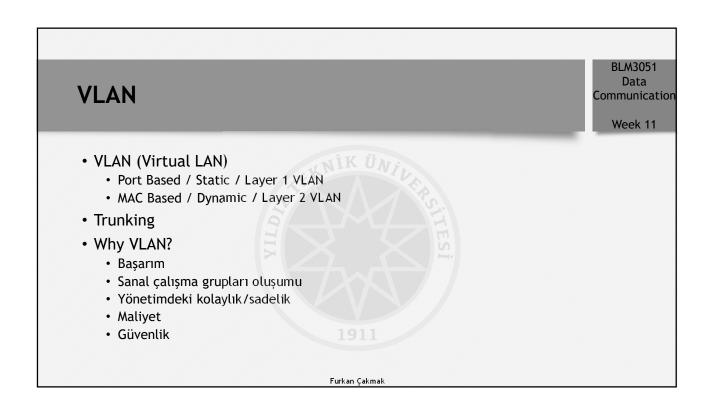
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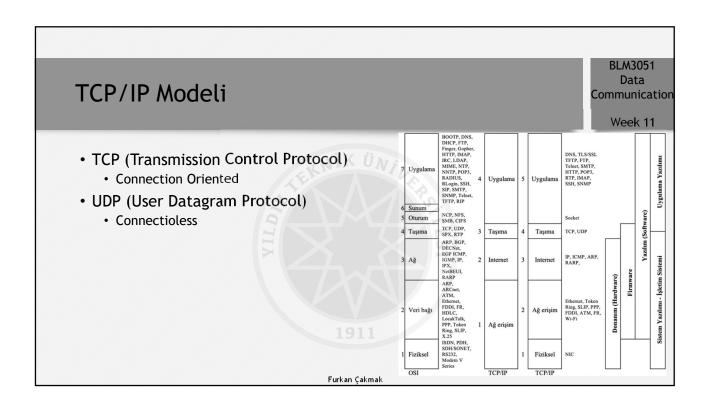
Week 11

Week	Date	Subjects
1	04,10,2022	Introduction to Data Communication Standards Used on Data Communication, Architectural models
2	11,10,2022	OSI Reference Model , Layers and Their Functions
3	18.10.2022	Signaling and Signal Encoding
4	25.10.2022	Parallel and Serial Transmission, Communication Media and Their Technical Specs., Multiplexing (TDM, FDM)
5	01,11,2022	Error Detection and Error Correction Techniques
6	08,11,2022	Data Link Control Techniques, Flow Control
7	15,11,2022	Asynchronous and Synchronous Data Link Protocols (BSC, HDLC)
8	22,11,2022	1. Vize Haftası
9	29.11.2022	LAN Technologies Continued, IEEE 802.4, 802.5, 802.11
10	06,12,2022	Connectionless and Connection Oriented Services, Switching
11	13.12.2022	Communications Equipment's, TCP/IP Model, Security Issues
12	20.12.2022	Wide Area Networking Technologies (X.25, ISDN, FR, ATM, xDSL.)
13	27.12.2022	Research Presentation 1
14	03.01.2022	Research Presentation 2

urkan ÇAKMAR







### BLM3051 Data TCP/IP Modeli (Con't) Communication Week 11 Konak Port Number Protokol Name Adres Αğ Adres – İkili sayı sistemindeki gösterimi Adres aralığı Maske Sınıfı Sayısı Sayısı 20,21 FTP (File Transfer Protocol 0.0.0.0-127.255.255.255 255.0.0.0 128 SMTP (Simple Mail Transfer Protocol) Sınıfı 128.0.0.0-191.255.255.255 80 HTTP (HiperText Transfer Protocol) 255.255.0.0 16.384 65.534 Sınıfı 110 POP (Post Office Protocol) 192.0.0.0-223.255.255.255 255.255.255.0 Sınıfı 224.0.0.0-239:255.255.255 D Multicast. Sınıfı 240.0.0.0-255.255.255.255 Ayrılmıştır. Sınıfı Subnet • 255.255.255.0 (11111111.11111111.11111111.000000000B) • 255.255.255.192 (11111111.11111111.11111111.11000000B) • NAT (Network Address Translation) • DNS (Domain Name System) Furkan Çakmak

## **Network Security**

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Week 11

- Ağ güvenliğinin önemli yönleri:
  - Veri bütünlüğü (data integrity)
  - Verinin kullanılabilirliği (data availability)
  - Veri mahremiyeti ve gizliliği: (data privacy and confidenciality)
- · Güvenlik mekanizmaları
  - Şifreleme (Enchipherment)
  - Sayısal imza (Digital Signature)
  - Erişim kontrolü (Access Control)
  - Kimlik doğrulama (Authentication)
  - Trafik dolgusu (Traffic Padding)
  - Rotalama kontrolü (Routing Control)
  - Notere kaydettirme (Notarization)

Furkan Çakmak

### Thank you for your listening.

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Week 11



Furkan Çakmak