Data Communication BLM3051



Furkan ÇAKMAK

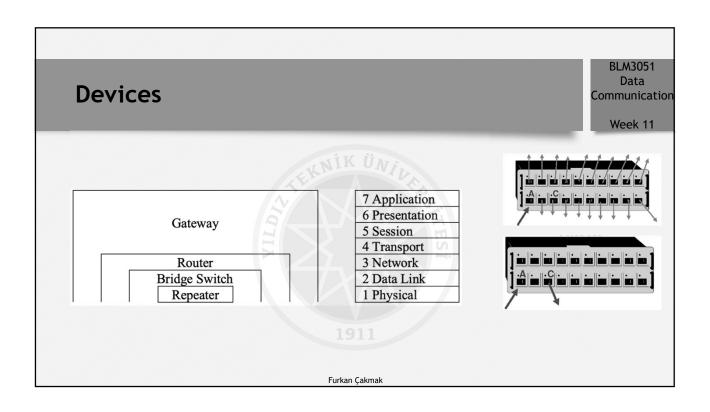
Lecture Information Form - Weekly Subjects

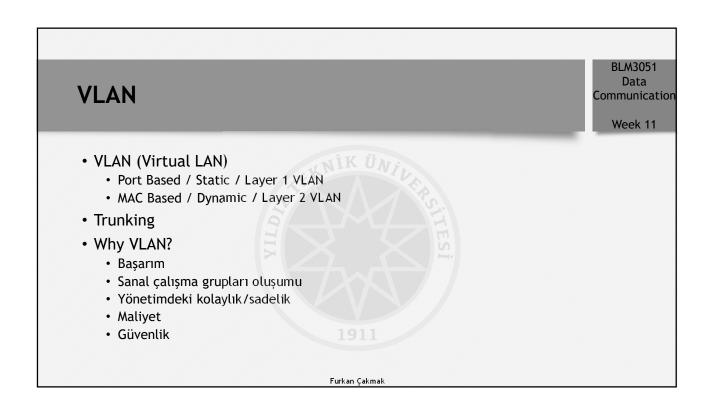
BLM3051 Data Communication

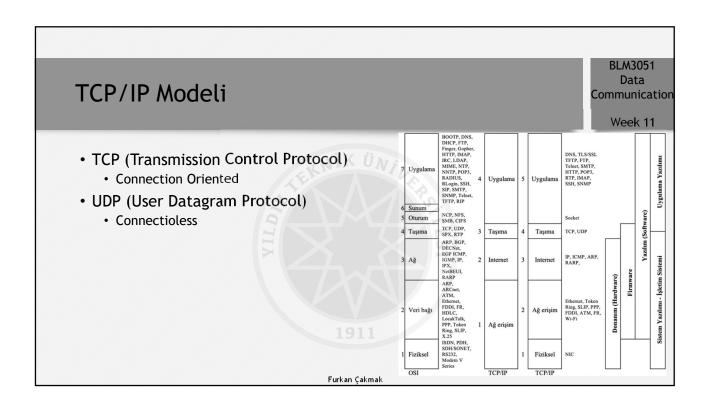
Week 11

| 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

BLM3051 Data Communication

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.

BLM3051 Data Communication

Week 11



Furkan Çakmak