Computer Networks Basic Protocols Fall 2017-2018

General Info:

Course Day and Hour:

Wed 12:30-15:30

Classroom:

EEB 5201

Course WebPage:

Through "Ninova" BLG 514E-CRN: 13814

Instructor:

Assoc. Prof. Dr. Berk CANBERK

EEB 2212

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Syllabus: Subject

Introduction to Computer Networks' World

Application Layer: HTTP, FTP, DNS, Telnet Protocols

Wireless Network Mngt Protocols in LTE

Week No

11

12

13

Date

13 September 2017

29 November 2017

06 December 2017

13 December 2017

1	13 September 2017	introduction to computer Networks World
2	20 September 2017	Physical Layer Protocols: Signals and Shannon Model Analysis
3	27 September 2017	MAC Layer-1: Link Layer Services, Framing, Error Control Protocols, Modulation Technniques
4	04 October 2017	MAC Layer -2: Access Protocols, Link Layer Analytics in Cellular Networks, Grade of Service
5	11 October 2017	Midterm-1
6	18 October 2017	Routing Layer -1: Routing Protocol Primitives, Basic Routing Algorithms, IP Address Schemes
7	25 October 2017	Routing Layer -2: Congestion Control Protocols, Mobile IP, Routing protocols in Cellular Networks
8	08 November 2017	Transport Layer: Protocol Primitives, UDP
9	15 November 2017	Midterm-2
10	22 November 2017	Wired and Wireless TCP

Presentations-1

Course Evaluation:

- 2 Midterms: 2 x %20 = %40
- Term Project: %25
 - Crew: 2 people.
 - 15 slides, MAX 20 min presentation.
 - Presentation: %15 (in the presentation weeks)
 - Report (1/project): %10 (Deadline: Final Day)
 - Project details and the project pool will be announced.
- Final: %35

Sources:

- Data and Computer Communications, William Stallings, Pearson-Prentice Hall, 9th Edition, 2010.
- Computer Networking, A Top-Down Approach Featuring the Internet, James F.Kurose, Keith W.Ross, Pearson-Addison Wesley, 6th Edition, 2012.

Additional Sources:

- TCP/IP Protocol Suite, Behrouz A. Forouzan, McGraw Hill, 4th Edition, 2010.
- Computer Networks and Internets, Douglas E. Comer, Pearson Education, 5th Edition, 2008.
- Computer Networks, Andrew Tanenbaum, Pearson, 5th Edition, 2010.
- Slides
- http://scholar.google.com
- http://ieeexplore.ieee.org/
- "Google!"