

Course Information

Course Code	5670542	
Course Section	1	
Course Title	COMPUTER NETWORKS	
Course Credit	3	
Course ECTS	8.0	
Course Catalog Description	urse Catalog Description The layered architecture, Local Area Networks, data link protocols, error correction with FEC and routing, flow control, transport protocols, application layer protocols, recent subjects in networking	
Prerequisites	No prerequisites	
Schedule	Wednesday, 09:40 - 12:30, EA307	

Instructor Information

Name/Title	Prof.Dr. ŞENAN ECE SCHMİDT
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Office Phone	210 4405
Office Hours	None

Course Objectives

Upon completion of this course the student will have the understanding of the legacy layered TCP/IP computer network architecture and recent and near future network architectures

Course Learning Outcomes

The students will understand the operation of the TCP/IP layered architecture.

The students willl learn network performance measurement methods,

The students will understand the motivation behind the contemporary computer network architectures.

The students will undertsand the operation of and interplay between the contemporary network architectures.

Tentative Weekly Outline

Week	Торіс	Relevant Reading	Assignments
1	Introduction		
2	Layered TCP/IP computer network architecture review		
3	Multimedia delivery over computer networks		
4	Network Virtualization		
5	Software Defined Networks (SDN)		
6	Networks for Data Centers and Cloud Computing		
7	Network Function Virtualization		



Week	Торіс	Relevant Reading	Assignments
8	Resource Management		

Course Textbook(s)

- Computer Networking: A Top Down Approach, 7th edition, Jim Kurose, Keith Ross, Addison-Wesley, 2016.
- Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud, William Stallings, Addison-Wesley Professional, 2015.
- Selected journal and conference papers

Course Grading

Deliverable	Grade Points
3 Midterms	45
Final	35
Class Project and Paper Reviews	20
Total	100

Information for Students with Disabilities

To obtain disability related academic adjustments and/or auxiliary aids, students with disabilities must contact the course instructor and the ODTÜ Disability Support Office as soon as possible. If you need any accommodation for this course because of your disabling condition, please contact me. For detailed information, please visit the website of Disability Support Office: http://engelsiz.metu.edu.tr/

Academic Honesty

The METU Honour Code is as follows: "Every member of METU community adopts the following honour code as one of the core principles of academic life and strives to develop an academic environment where continuous adherence to this code is promoted. The members of the METU community are reliable, responsible and honourable people who embrace only the success and recognition they deserve, and act with integrity in their use, evaluation and presentation of facts, data and documents."