



Course Information

Course Code	5670542
Course Section	1
Course Title	COMPUTER NETWORKS
Course Credit	3
Course ECTS	8.0
Course Catalog Description	The layered architecture, Local Area Networks, data link protocols, error correction with FEC and ARQ, routing, flow control, transport protocols, application layer protocols, recent subjects in networking.
Prerequisites	No prerequisites
Schedule	Monday , 13:40 - 16:30, EA207

Instructor Information

Name/Title	Prof.Dr. ŞENAN ECE SCHMİDT
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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

Tentative Weekly Outline

Week	Topic	Relevant Reading	Assignments
1	Introduction		
2	Layered TCP/IP computer network architecture review		
3	Multimedia delivery over computer networks		
4	Software Defined Networks (SDN)		
5	5G Core Network		
6	Networks for Data Centers and Cloud Computing		
7	Network Virtualization		
8	A recent Network Technology (TBA)		

Course Textbook(s)

- Computer Networking: A Top Down Approach, 8th edition, Jim Kurose, Keith Ross, Pearson (July 24, 2020) © 2021.
- 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
Midterm(s)	30
Paper review and presentation	10
Class Project	20
Final Exam	40
Total	100