KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
ELECTRICAL ENGINEERING DEPARTMENT
EE400 – Telecommunication Networks (042)

Tentative Schedule

Text Book: Communication Networks, by Leon-Garcia and Widjaja, McGraw Hill, 2004.

Instructor: Dr. Haitham Tayyar

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Course Outline:

Topics	Chapter	#Classes

INTRODUCTION TO NETWORKS
    Network Services
    Network Topologies
    Circuit switching and packet switching
	1.1-1.2	2

COMPUTER NETWORKS		
Layered Architecture Concept of Layering, OSI Model	2.1-2.3	2

The Physical Layer:
    Digital Transmission Fundamentals, Transmission Media,
    Devices and Components
	3.1-3.9	4

The Data Link Layer (DLC) Protocols Error Control, ARQ, Framing (external material)	3.8, 5.2	4
Medium Access Control Protocols ALOHA, CSMA, LANs	6.1-6.4	4
Routing Routing Tables, Routing Algorithms, Shortest Path	7.4-7.5	3
ATM and TCP/IP Networks	7.6,8.1-8.2	3
TELEPHONE NETWORKS		
Network Elements, Multiplexing, Switching, Signaling, Traffic Analysis, Cellular Networks	4.1-4.8	8

Grading:

Quizzes:	10%	
Exam I	15%	March 12, Class time
Exam II	15%	May 14 , Class time
Project/Presentation:	10%	
Lab:	20%	
Final Exam:	30%	