

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**ELECTRICAL ENGINEERING DEPARTMENT**  
**EE400 – Telecommunication Networks**

**052 Schedule**

Text Book: Communication Networks, by Leon-Garcia and Widjaja, McGraw Hill, 2000.

Instructor: Dr. M. Adnan Al-Andalusi

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Office Hours: Sun. & Tues. 11:15-12:00am, Wed. 12:00-1:00pm

Course Outline:

Topics	Chapter	#Classes
<b>INTRODUCTION TO NETWORKS</b> Network Services Network Topologies Circuit switching and packet switching	1.1-1.2	2
<b>COMPUTER NETWORKS</b>		
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) Error Control, ARQ, Framing	3.8, 5.2	4
Medium Access Control Protocols ALOHA, CSMA, LANs	6.1-6.4	4
Packet Switching & the Network Layer Datagram and Virtual Circuit Switching, Network Layer Functions, Routing Algorithms	7.4-7.5	3
ATM and TCP/IP Networks	7.6,8.1-8.2	3
<b>TELEPHONE NETWORKS</b>		
Network Elements, Multiplexing, Switching, Signaling, Traffic Analysis, Cellular Networks	4.1-4.8	8

*Course Material is available on the Course WebCT*

Grading:

Quizzes & CW:	10%	
Exam I	15%	Sun. March 26, Class time
Exam II	15%	Sun. April 30, Class time
Projects:	10%	
Lab:	20%	
Final Exam:	30%	