LESSON PLAN

CSE 3251: COMPUTER NETWORKS

Total Credit : 03
Total Marks : 75
Total no of Weeks : 13

Final Exam : 52½ (70% of total marks)

Section - A — 26% Section - B — 26%

Quiz/CT : 15 (20% of total marks) Attendance : 7½ (10% of total marks)

Course Teacher : Dr. ASIF ZAMAN, Professor, CSE RU

Class Room : 219

Class Schedule : As mentioned in class routine.

Weeks	Contents	Materials
1-2	Introduction : Basic concept of computer network; Network classification,	https://sites.google.com/site/asifzaman3180/lecture-slides
	structure/topology; Protocol Hierarchies; Open System Interconnection;	
	Example networks.	
3-4	Physical Layer: Guided physical transmission media, UTP, STP, Optic fiber,	
	Wireless Media, IEEE standards, baseband and passband transmission, PSTN;	
	circuit and packet switching, Mobile telephone system; ADSL.	
	Class Test-1	
5	Data Link Layer: Data link layer design issues; Framing, Error detection and	
	correction; Elementary data link protocols; Sliding window protocols; The data	
	link layer in the Internet	
6	Multiple Access Protocols: ALOHA; CSMA/CD Protocol; Collision-free protocols;	
	Wireless LAN protocols; Ethernet; Bluetooth; Datalink layer switching.	
7-9	Network Layer: Network layer design issues; IP address and subnet masking,	s/mo
	Routing algorithms; Congestion control algorithms; Internetworking; Network	sites.google.co
	layer in the internet; Network layer	
	Class Test-2	
10	Transport Layer: The transport service; Elements of transport protocols; three-	//:sd
	way handshake; TCP Congestion Control, The internet transport protocols;	httı
11	Presentation Layer: Data Compression techniques, Frequency Dependent	
	Coding, Context Dependent Encoding.	
12	Application Layer: DNS-Domain Name System; Electronic Mail; The World Wide	
	Web; Multimedia.	
13	Presentation Week	

LESSON PLAN

CSE 3252: COMPUTER NETWORKS LAB

Total Credit : 01
Total Marks : 25
Total no of Weeks : 13

Final Exam : 17½ (70% of total marks)
Quiz/Viva-voce/CA : 05 (20% of total marks)
Attendance : 2½ (10% of total marks)

Course Teacher : Dr. ASIF ZAMAN,Professor, CSE RU
Class Room : As mentioned in class routine.
Class Schedule : As mentioned in class routine.

Weeks	Contents
1	 Building Ethernet cable – straight and crossover cable (for both T568A & T568B standards). Assigning and checking IP configuration of a machine. Checking connectivity in between two nodes (using ping command). Windows file/folder/printer sharing. Configuring a DHCP server (openDHCP).
2	
3	
4	Cooket programming interchange massage in between two reachines
5	 Socket programming – interchange message in between two machines. Socket programming – sending email using SMTP server. Configuring POP3 email server for windows – hMailServer.
6	Configuring FOF3 cinali server for windows = nivialiserver.
7	Evaluation Exam
8	Cisco packet tracer – simulating HUB & Switch operation.
9	 Cisco packet tracer – Simulating FIOB & Switch Operation. Cisco packet tracer – Creating VLAN in cisco switch. Cisco packet tracer – Basic router configuration. Cisco packet tracer – Inter VLAN routing.
10	
11	
12	 Configuring Squid proxy – as transparent/ non-transparent proxy server.
13	Lab Internal Exam