Bhoj Reddy Engineering College for Women: Hyderabad
Department of Electronics and Communication Engineering
Lesson plan of faculty member for the academic year 2020–21

Class: IV B Tech Branch-Section: ECE-A Semester: I
Subject: Computer Networks Lectures per week: 3

Lecture Number	Topics to be covered	Date (s)
UNIT- I: Introduction to Networks		
1.	Internet,Protocols and Standards	1 September 2020
2.	OSI Model, Layers in OSI Model,TCP/IP Suite	5 September 2020
3.	TCP/IP Suite ,Addressing	7 September 2020
4.	Physical Layer:Multiplexing,Transmission Media	8 September 2020
5.	Circuit Switched Networks	12 September 2020
6.	Circuit Switched Networks	14 September 2020
7.	Datagram Networks	15 September 2020
8.	Virtual Circuit Networks	19 September 2020
Unit -II: Data Link Layer		
9.	Introduction,Checksum,Framing	21 September 2020
10.	Flow and Error Control	22 September 2020
11.	Noiseless Channels- Simplest,Stop-and Wait Protoco	26 September 2020
12.	Noisy Channels- Stop-and-Wait ARQ	28 September 2020
13.	Go-Back-N ARQ Protocol	29 September 2020
14.	Selective Repeat ARQ Protocol	3 October 2020
15.	Random Access	5 October 2020
16.	Controlled Access	6 October 2020
17.	Channelization	10 October 2020
18.	IEEE Standards	12 October 2020
19.	Giga-Bit Ethernet,Wireless LANS	13 October 2020
20.	SONET-SDH	19 October 2020
21.	Frame Relay and ATM	20 October 2020
Unit-III : Network Layer		
22.	Logical Addressing	26 October 2020
23.	Internetworking,Tunneling	27 October 2020
24.	Address Mapping	31 October 2020
25.	ICMP,IGMP	2 November
26.	Forwarding,Routing-Flooding	3 November
27.	Bellman & Ford	7 November
28.	Disjikstra's routing protocols	9 November
29.	Disjikstra's routing protocols	10 November
30.	RIP,OSPF	16 November
31.	BGP and Multicast Routing Protocols	17 November
32.	Connecting Devices-Passive Hubs	21 November
33.	Repeaters,Active Hubs	23 November
34.	Active Hubs	24 November
35.	Bridges, Routers	28 November
36.	Revision Unit II	1 December 2020
37.	Revision Unit III	5 December 2020

Lecture Number	Topics to be covered	Date (s)
	Unit-IV : Transport Layer	
38.	Process to process Delivery,UDP	7 December 2020
39.	TCP and SCTP Protocols	8 December 2020
40.	SCTP Protocols	12 December 2020
41.	Congestion Control,Quality of Service	14 December 2020
42.	Application Layer-Domain Name Space	15 December 2020
43.	DNS in Internet,Electronic Mail, File Transfer Protocol	19 December 2020
44.	WWW,HTTP,SNMP,Multi-Media	21 December 2020
	Unit-V : Network Security	
45.	Security Services Mechanisms and attacks, IPSec	22 December 2020
46.	ISSL,VPN, Firewall	28 December 2020
47.	Bluetooth, Zigbee IPv4,IPv6	29 December 2020
48.	Revision Unit IV,V	2 January 2021

TEXTBOOKS

- Data Communications and Networking — Behrouz A. Forouzan, Fifth Edition TMH, 2013.
- Computer Networks — Andrew S Tanenbaum, 4th Edition, Pearson Education.
- Computer Networking: A Top-Down Approach Featuring the Internet, James F.Kurose,K.W.Ross,3rd Edition, Pearson Education

REFERENCE BOOKS

- An Engineering Approach to Computer Networks-S.Keshav, 2nd Edition, Pearson Education.
- Data Communications and Networks by William Stallings,Pearson Edu. 10th Edition.
- Understanding communications and Networks, 3rd Edition, W.A.Shay, Cengage Learning.
- Data Communications and Networks-Bhusan Trivedi,Oxford University press 2016.

Name and signature of the faculty: Muneeba Zuha

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