

# Bhoj Reddy Engineering College for Women: Hyderabad

Department of Computer Science and Engineering

Lesson plan of faculty member for the academic year 2016–17

Class: III B Tech

Branch-Section: CSE B

Semester: I

Subject: Computer Networks

Lectures per week: 4+1 (Tutorial)

Lecture Number	Topics to be covered	Date (s)
<b>UNIT – I: Overview of Internet, Physical layer, Data link layer</b>		
1	Introduction	13 June 2016
2	Protocol, Layering Scenario	14 June 2016
3	The OSI model	16 June 2016
4	TCP/IP Protocol suite	18 June 2016
5	Tutorial (G1, G2, G3) - Discussion on Protocols	16, 17, 18 June 2016
6	Internet history standards and administration	20 June 2016
7	Comparison of OSI and TCP/IP reference model	21 June 2016
8	Guided transmission media	23 June 2016
9	Wireless transmission media ,Design Issues of DLL	25 June 2016
10	Tutorial (G1, G2, G3) - Discussion on Physical layer	23, 24, 25 June 2016
11	CRC Codes	27 June 2016
12	Elementary DLL Protocols	28 June 2016
13	Sliding Window Protocols	30 June 2016
<b>UNIT-II: Multiple Access Protocols</b>		
14	ALOHA, CSMA	2 July 2016
15	Tutorial (G1, G2, G3) - Revision of CSMA	30 June, 1, 2 July 2016
16	Collision Free Protocols-Introduction	4 July 2016
17	Collision free Protocols	5 July 2016
18	Ethernet-Physical Layer	9 July 2016
19	Tutorial (G2, G3) - Discussion on Collision free protocols	8,9 July 2016
20	Ethernet-Physical Layer	11 July 2016
21	Ethernet-Mac Sub Layer	12 July 2016
22	Ethernet-Mac Sub Layer	14 July 2016
23	DLL Switching	16 July 2016
24	Tutorial (G1, G2, G3) - Multiple choice question	14,15, 16 July 2016
25	DLL Switching	18 July 2016
<b>UNIT-III: Network Layer</b>		
26	Network Layer Design Issues	19 July 2016
27	Store and Forward Packet Switching-Connection Oriented	21 July 2016
28	Connection Less Networks	23 July 2016
29	Tutorial (G1, G2, G3) - Short questions on Network layer	21, 22, 23 July 2016
30	Routing Algorithms	25 July 2016
31	Routing Algorithms	26 July 2016
32	Routing Algorithms	28 July 2016
33	Congestion Control Algorithms	30 July 2016
34	Tutorial (G1, G2, G3) - Long questions on Routing	28, 29, 30 July 2016
35	Congestion Control Algorithms	2 August 2016
36	Admission control	4 August 2016
37	Admission control	6 August 2016
38	Tutorial (G1, G2, G3) - Multiple choice questions on previous units	4, 5, 6 August 2016
<b>UNIT-IV: Internetworking, Transport layer</b>		
39	Tunneling-Introduction	16 August 2016
40	Tunneling	18 August 2016
41	Internetwork Routing	20 August 2016
42	Tutorial (G1, G2, G3) - Discussion on fragmentation	18, 19, 20 August 2016
43	Packet fragmentation	22 August 2016

44	IPV4	23 August 2016
45	IPV6 Protocol	27 August 2016
46	Tutorial (G2, G3) – Revision of IPV6	26, 27 August 2016
47	ICMP,ARP	29 August 2016
48	RARP,CIDR,DHCP	30 August 2016
49	Transport layer: Services provided to upper layers	1 September 2016
50	Addressing connection establishment	3 September 2016
51	Tutorial (G1, G2, G3) - Short questions on transport layer	1, 2, 3 September 2016
<b>UNIT-V: Internet Transport Protocols, Application Layer</b>		
52	Internet Transport Protocols-UDP-RPC	6 September 2016
53	Real Time Transport Protocols-Introduction to TCP	8 September 2016
54	The TCP service model	10 September 2016
55	Tutorial (G1, G2, G3) - Introduction to TCP	8, 9,10 September 2016
56	The TCP service model	13 September 2016
57	TCP segment header	15 September 2016
58	The Connection Establishment, The TCP Connection Release	17 September 2016
59	Tutorial (G1, G2, G3) - The TCP Connection Release	15, 16, 17 September 2016
60	The Connection Management Modeling	19 September 2016
61	The TCP sliding window	20 September 2016
62	The TCP sliding window	22 September 2016
63	The TCP Congestion Control	24 September 2016
64	Tutorial (G1, G2, G3) - Long questions on Protocols	22, 23, 24 September 2016
65	Future of TCP, Application Layer- Introduction, Providing services	26 September 2016
66	Application Layer paradigms, Client-Server model	27 September 2016
67	Standard Client-Server Application-HTTP	29 September 2016
68	TELNET	1 October 2016
69	Tutorial (G1, G2, G3) - Multiple choice questions discussion	29, 30 September, 1 October 2016
70	FTP	3 October 2016
71	Electronic mail	4 October 2016
72	DNS,SSH	27 October 2016
73	Revision	29 October 2016
74	Tutorial (G3, G1) – Previous question papers	27, 28, 29 October 2016

**Text books:**

1. Data Communication and Networking-Behrouz A. Forouzan, Fifth Edition TMH, 2013
2. Computer Networks- Andrew S Tanenbaum, 4th Edition, Pearson Education.

Name and signature of the faculty: Ms Namita Parati ----

Name and signature of Head of the Department: Ms K Usha Rani ----