

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 A

Semester: I

Subject: Computer Networks

Lectures per week: 4+1 (Tutorial)

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

44	IPV4	23 August 2016
45	IPV6 Protocol	24 August 2016
46	IP addresses	26 August 2016
47	Tutorial (G2, G3) – Revision of IPV6	22, 27 August 2016
48	ICMP,ARP	30 August 2016
49	RARP,CIDR,DHCP	31 August 2016
50	Transport layer: Services provided to upper layers	1 September 2016
51	Addressing connection establishment	2 September 2016
52	Tutorial (G2, G1, G3) – Short questions on transport layer	29 August, 1, 3 September 2016
53	Connection release	6 September 2016
54	Crash recovery	7 September 2016
UNIT-V: Internet Transport Protocols, Application Layer		
55	Internet Transport Protocols-UDP-RPC	8 September 2016
56	Real Time Transport Protocols-Introduction to TCP	9 September 2016
57	Tutorial (G1, G3) - Introduction to TCP	8, 10 September 2016
58	The TCP service model	13 September 2016
59	The TCP service model	14 September 2016
60	TCP segment header	15 September 2016
61	The Connection Establishment, The TCP Connection Release	16 September 2016
62	Tutorial (G1, G3) - The TCP Connection Release	15,17 September 2016
63	The Connection Management Modeling	20 September 2016
64	The TCP sliding window	21 September 2016
65	The TCP sliding window	22 September 2016
66	The TCP Congestion Control	23 September 2016
67	Tutorial (G2, G1, G3) – Long questions on Protocols	19, 22, 24 September 2016
68	Future of TCP, Application Layer- Introduction, Providing services	27 September 2016
69	Application Layer paradigms, Client-Server model	28 September 2016
70	Standard Client-Server Application-HTTP, ,TELNET	29 September 2016
71	Tutorial (G2, G1, G3) – Multiple choice questions discussion	26, 29 September, 1 October 2016
72	FTP, Electronic mail	4 October 2016
73	DNS,SSH	27 October 2016
74	Revision	28 October 2016
75	Tutorial (G3, G1) – Previous question papers	3, 27, 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 ----