ST. ANN'S COLLEGE OF ENGINEERING &TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTERSCIENCE & ENGINEERING
LECTURE SCHEDULE

Subject: COMPUTER NETWORKS **Academic Year: 2017-18**
Name: A.V.S.SUDHAKAR RAO **year & Sem/Section: III-II SEM 'A'**
No. of Lectures per week : 4+1* (Tutorial)

S. NO	DATE	UNITS	TOPICS
1	20-11-2017	I	**Introduction**: OSI overview
2	22-11-2017		TCP/IP and other networks models
3	23-11-2017		Examples of Networks: Novell Networks
4	24-11-2017		Arpanet, Internet
5	25-11-2017		Network Topologies
6	27-11-2017		WAN, LAN, MAN
7	29-11-2017		UNIT TEST -1
8	30-11-2017	II	**OT-1,Physical Layer and overview of PL Switching**: Multiplexing: frequency division multiplexing
9	02-12-2017		wave length division multiplexing
10	04-12-2017		TUTORIAL
11	06-12-2017		synchronous time division multiplexing
12	07-12-2017		statistical time division multiplexing
13	08-12-2017		introduction to switching: Circuit Switched Networks
14	11-12-2017		TUTORIAL
15	13-12-2017		Datagram Networks
16	14-12-2017		Virtual Circuit Networks
17	15-12-2017		UNIT TEST -2
18	16-12-2017	III	**OT-2, Framing**: fixed size framing, variable size framing
19	18-12-2017		TUTORIAL
20	20-12-2017		flow control, error control
21	21-12-2017		, error detection and correction CRC,
22	22-12-2017		Checksum: idea, one's complement internet checksum, services provided to Network Layer
23	23-12-2017		**Elementary Data Link Layer protocols**: simplex protocol, Simplex stop and wait
24	27-12-2017		Simplex protocol for Noisy Channel.
25	28-12-2017		**Sliding window protocol**: One bit, Go back N,
26	29-12-2017		Selective repeat-Stop and wait protocol
27	30-12-2017		Data link layer in HDLC: configuration and transfer modes,
28	01-01-2018		TUTORIAL
29	03-01-2018		frames, control field
30	04-01-2018		point to point protocol (PPP): framing transition phase,. multiplexing,
31	05-01-2018		multi link PPP
32	06-01-2018	IV	**Random Access**: ALOHA,
33	08-01-2018		TUTORIAL
34	10-01-2018		MAC addresses, Carrier sense multiple access
35	11-01-2018		CSMA with Collision Detection
36	12-01-2018		CSMA with Collision Avoidance
37	17-01-2018		REVISION
38	18-01-2018		REVISION
39	19-01-2018		REVISION
40	20-01-2018		REVISION
41	22-01-2018		TUTORIAL
42	24-01-2018		Controlled Access: Reservation, Polling, Token Passing

43	25-01-2018		Channelization: frequency division multiple access(FDMA)
44	27-01-2018		time division multiple access(TDMA)
45	29-01-2018		TUTORIAL
46	31-01-2018		code division multiple access(CDMA)
47	01-02-2018		Routing algorithm shortest path routing
48	02-02-2018		Flooding, Hierarchical routing
49	03-02-2018		Broad cast, Multi cast
50	05-02-2018		TUTORIAL
51	07-02-2018		distance vector routing
52	08-02-2018		UNIT TEST -4
53	09-02-2018	V	**OT-4, IEEE Standards**: – data link layer, physical layer
54	10-02-2018		Manchester encoding
55	14-02-2018		Standard Ethernet: MAC sub layer, physical layer
56	15-02-2018		Fast Ethernet: MAC sub layer, physical layer
57	16-02-2018		IEEE-802.11: Architecture, MAC sub layer
58	17-02-2018		addressing mechanism, frame structure
59	19-02-2018		TUTORIAL
60	21-02-2018		UNIT TEST -5
61	22-02-2018	VI	**OT-5,Application layer (WWW and HTTP):** ARCHITECTURE : Client (Browser) ,Server
62	23-02-2018		Uniform Resource Locator, HTTP: HTTP Transaction
63	24-02-2018		HTTP Operational Model and Client/Server Communication
64	26-02-2018		TUTORIAL
65	28-02-2018		HTTP Generic Message Format, HTTP Request Message Format, HTTP Response Message Format
66	01-03-2018		WAP—The Wireless Application Protocol
67	03-03-2018		REVISION
68	05-03-2018		REVISION
69	07-03-2018		REVISION
70	08-03-2018		REVISION
71	09-03-2018		REVISION
72	12-03-2018		REVISION
73	14-03-2018		REVISION
74	15-03-2018		REVISION
75	16-03-2018		REVISION
76	17-03-2018		REVISION
77	19-03-2018		REVISION
78	21-03-2018		REVISION
79	22-03-2018		REVISION
80	23-03-2018		REVISION
81	24-03-2018		REVISION

Text Books	
1	Data Communications and Networking, 4th edition, Behrouz.A.Fourzan, TMH.
2	Computer Networks, 5ed, David Patterson, Elsevier
3	Computer Networks, 4th edition, Andrew S Tanenbaum, Pearson.
4	Computer Networks, Mayank Dave, CENGAGE.
References	
1	An Engineering Approach to Computer Networks-S.Keshav, 2nd Edition, Pearson Education
2	Understanding communications and Networks, 3rd Edition, W.A. Shay, Thomson

FACULTY MEMBER **HEAD OF THE DEPARTMENT**