

**ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**LECTURE SCHEDULE**

**Subject: COMPUTER NETWORKS**

**Academic Year: 2017-18**

**Name: Dr.S.INDRANEEL**

**Year & Sem/Section: III-II SEM 'C'**

**No. of Lectures per week : 4+1\* (Tutorial)**

S. NO	DATE	UNITS	TOPICS
1	20/11/2017	<b>I</b>	<b>Introduction:</b> OSI overview
2	21/11/2017		TCP/IP and other networks models
3	22/11/2017		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	28/11/2017		UNIT TEST -1
8	29/11/2017	<b>II</b>	<b>OT-1, Physical Layer and overview of PL Switching:</b> Multiplexing: frequency division multiplexing
9	02/12/2017		wave length division multiplexing
10	04/12/2017		synchronous time division multiplexing
11	05/12/2017		statistical time division multiplexing
12	06/12/2017		TUTORIAL
13	08/12/2017		introduction to switching: Circuit Switched Networks, Datagram Networks
14	11/12/2017		Virtual Circuit Networks
15	12/12/2017		UNIT TEST -2
16	13/12/2017	TUTORIAL	
17	15/12/2017	<b>III</b>	<b>OT-2, Framing:</b> fixed size framing, variable size framing
18	16/12/2017		flow control, error control
19	18/12/2017		error detection and correction CRC,
20	19/12/2017		Checksum: idea, one's complement internet checksum, services provided to Network Layer
21	20/12/2017		TUTORIAL
22	22/12/2017		<b>Elementary Data Link Layer protocols:</b> simplex protocol, Simplex stop and wait
23	23/12/2017		Simplex protocol for Noisy Channel.
24	26/12/2017		<b>Sliding window protocol:</b> One bit,
25	27/12/2017		TUTORIAL
26	29/12/2017		Go back N,
27	30/12/2017		Selective repeat-Stop and wait protocol
28	01/01/2018	Data link layer in HDLC: configuration and transfer modes,	
29	02/01/2018	frames, control field	
30	03/01/2018	TUTORIAL	
31	05/01/2018	point to point protocol (PPP): framing transition phase., multiplexing, multi link PPP	
32	06/01/2018	<b>Random Access:</b> ALOHA,	MAC addresses, Carrier sense multiple access
33	08/01/2018		CSMA with Collision Detection
34	09/01/2018		TUTORIAL
35	10/01/2018		CSMA with Collision Avoidance
36	12/01/2018		TUTORIAL
37	17/01/2018		REVISION
38	19/01/2018		REVISION
39	20/01/2018		REVISION
40	22/01/2018		REVISION
41	23/01/2018		TUTORIAL
42	24/01/2018	TUTORIAL	

43	27/01/2018	<b>IV</b>	Controlled Access: Reservation, Polling,	
44	29/01/2018		Token Passing	
45	30/01/2018		Channelization: frequency division multiple access(FDMA)	
46	31/01/2018		TUTORIAL	
47	02/02/2018		Time division multiple Access(TDMA)	
48	03/02/2018		code division multiple access(CDMA)	
49	05/02/2018		Routing algorithm, shortest path routing	
50	06/02/2018		Flooding, Hierarchical routing	
51	07/02/2018		TUTORIAL	
52	09/02/2018		Broad cast, Multi cast	
53	10/02/2018		distance vector routing	
54	14/02/2018		TUTORIAL	
55	16/02/2018		UNIT TEST -3	
56	17/02/2018		<b>V</b>	<b>OT-4, IEEE Standards:</b> – data link layer, physical layer
57	19/02/2018			Manchester encoding
58	20/02/2018			Standard Ethernet: MAC sub layer, physical layer
59	21/02/2018	TUTORIAL		
60	23/02/2018	Fast Ethernet: MAC sub layer, physical layer		
61	24/02/2018	IEEE-802.11: Architecture, MAC sub layer		
62	26/02/2018	addressing mechanism, frame structure		
63	27/02/2018	UNIT TEST -4		
64	28/02/2018	TUTORIAL		
65	03/03/2018	<b>VI</b>		<b>OT-5,Application layer (WWW and HTTP):</b> ARCHITECTURE : Client (Browser) ,Server
66	05/03/2018		Uniform Resource Locator, HTTP: HTTP Transaction	
67	06/03/2018		HTTP Operational Model and Client/Server Communication	
68	07/03/2018		TUTORIAL	
69	09/03/2018		HTTP Generic Message Format, HTTP Request Message Format, HTTP Response Message Format	
70	12/03/2018		WAP—The Wireless Application Protocol	
71	13/03/2018		REVISION	
72	14/03/2018		REVISION	
73	16/03/2018		REVISION	
74	17/03/2018		REVISION	
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76	20/03/2018		REVISION	
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79	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.
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#### References

1	An Engineering Approach to Computer Networks-S.Keshav, 2nd Edition, Pearson Education
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**FACULTY MEMBER****HEAD OF THE DEPARTMENT**

SACET-CSE