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

Subject:Data Communication **Academic Year:2017-18**
Branch:CSE **Year & Sem: III/I** **Sec : A**
Faculty Name: B P V SUBBARAO
No. of Lectures per Week: **4+1* (Tutorial)**

S.NO	DATE	UNIT	TOPIC
1	12-06-2017	UNIT-1	INTRODUCTION TO DATA COMMUNICATIONS AND NETWORKING
2	13-06-2017		Standards Organizations for DataCommunications,
3	14-06-2017		Layered Network Architecture
4	15-06-2017		Open Systems Interconnection
5	17-06-2017		Data Communications Circuits,erial and parallel Data Transmissions
6	19-06-2017		Data communications Networks, Alternate Protocol Suites
7	20-06-2017		Signal Analysis, Electrical Noise and Signal-to-Noise Ratio,
8	21-06-2017		Analog Modulation Systems,Information Capacity,
9	22-06-2017		Tutorial
10	24-06-2017		Bits, Bit Rate, Baud, and M-ary Encoding
11	27-06-2017		Digital Modulation
12	28-06-2017		PPT on unit-1
13	29-06-2017		Tutorial
14	01-07-2017		sliptest-1
15	03-07-2017	UNIT-2	Transverse Electromagnetic Waves, Characteristics of Electromagnetic Waves
16	04-07-2017		Advantages of Optical Fiber cables, Disadvantages of Optical Fiber Cables
17	05-07-2017		Electromagnetic spectrum, Optical Fiber Communications System Block Diagram, Optical Fiber construction
18	06-07-2017		Tutorial
19	10-07-2017		Propagation of Light Through an Optical fiber Cable,
20	11-07-2017		Optical Fiber Modes and Classifications
21	12-07-2017		Optical Fiber Comparison,Losses in Optical Fiber Cables
22	13-07-2017		Tutorial
23	15-07-2017		Light sources, Light Detectors
24	17-07-2017		Lasers
25	18-07-2017		sliptest-2
26	19-07-2017	UNIT-3	Pulse Modulation,Pulse code Modulation
27	20-07-2017		Tutorial
28	22-07-2017		Dynamic Range, Signal Voltage –to-Quantization Noise Voltage Ratio
29	24-07-2017		Linear Versus Nonlinear PCM Codes,.Companding
30	25-07-2017		PCM Line Speed, Delta Modulation PCM and Differential PCM
31	26-07-2017		Time- Division Multiplexing,
32	27-07-2017		Tutorial
33	29-07-2017		Digital Line Encoding
34	31-07-2017		T Carrier systems Frequency- Division Multiplexing
35	01-08-2017		Wavelength- Division Multiplexing,
36	02-08-2017		SynchronousOptical Network
37	03-08-2017		Tutorial
38	05-08-2017		T1 Digital Carrier System
39	07-08-2017		Mid-1
40	08-08-2017		Mid-1
41	09-08-2017		Mid-1
42	10-08-2017		Mid-1
43	12-08-2017		Mid-1

44	16-08-2017	UNIT-4	WIRELESS COMMUNICATIONS SYSTEMS
45	17-08-2017		Tutorial
46	19-08-2017		Electromagnetic Polarization
47	21-08-2017		Electromagnetic Radiation
48	22-08-2017		Optical Properties of Radio Waves
49	23-08-2017		Terrestrial Propagation of Electromagnetic Waves,
50	24-08-2017		Tutorial
51	28-08-2017		Satellite Communications Systems
52	29-08-2017		Skip Distance,Free-Space Path Loss
53	30-08-2017		Microwave Communications Systems
54	31-08-2017		Tutorial
55	04-09-2017		slip test-4
56	05-09-2017	UNIT-5	The Subscriber Loop, Standard Telephone Set, Basic Telephone Call Procedures
57	06-09-2017		Call Progress Tones and Signals, Cordless Telephones
58	07-09-2017		Tutorial
59	09-09-2017		Caller ID, Electronic Telephones, Paging systems
60	11-09-2017		First- Generation Analog Cellular Telephone, Personal Communications system
61	12-09-2017		Second-Generation Cellular Telephone Systems, N-AMPS
62	13-09-2017		Digital Cellular Telephone,
63	14-09-2017		Tutorial
64	16-09-2017		Global system for Mobile Communications
65	18-09-2017		Interim Standard-95
66	19-09-2017		sliptest-5
67	20-09-2017	UNIT-6	Data Communications Character Codes,Bar Codes, Error Control
68	21-09-2017		Tutorial
69	23-09-2017		Error Detection and Correction Character Synchronization
70	25-09-2017		Digital Service Unit and Channel Service Unit
71	26-09-2017		Voice- Band Data Communication Modems, Bell Systems-Compatible Voice- Band Modems
72	27-09-2017		Voice- Band Modem Block Diagram,Voice- Band Modem Classifications
73	03-10-2017		Asynchronous Voice-Band Modems, Synchronous Voice-Band Modems
74	04-10-2017		Modem Synchronization, 56K ModemsModem Control:
75	05-10-2017		Tutorial
76	07-10-2017		The AT Command Set, Cable Modems
77	09-10-2017		Mid-II
78	10-10-2017		Mid-II
79	11-10-2017		Mid-II
80	12-10-2017		Mid-II
81	14-10-2017		Mid-II

TEXT BOOKS:

1. Introduction to Data Communications and Networking, Wayne Tomasi, Pearson Education

Reference Books :

1. Data Communications and Networking, Behrouz A Forouzan, Fourth Edition.TMH.
2. Data and Computer communications, 8/e, William Stallings, PHI.
3. Computer Communications and Networking Technologies, Gallow, Second Edition Thomson
4. Computer Networking and Internet, Fred Halsll, Lingana Gouda Kulkarni, Fifth Edition, Pearson Educatio

Faculty member **Head of the Department**

	total	81	
	classes	52	
	tutorial	14	
	mid	10	
	sliptest	4	
	ppt	1	
		81	

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12-06-2017	Monday	1	1
13-06-2017	Tuesday	2	1
14-06-2017	Wednesday	3	1
15-06-2017	Thursday	4	1
17-06-2017	Saturday	5	1
19-06-2017	Monday	6	1
20-06-2017	Tuesday	7	1
21-06-2017	Wednesday	8	1
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