

LESSON PLAN

Name of the Institute:		C. V. Raman Polytechnic
Department:		Computer Science & Engineering
Semester/Division/Branch:		4 th sem/CSE
Subject Name with code:		Data Communication & Computer Network(TH-2)
Total No. of Class (Required):		60
Faculty Name:		Subhajit Panda
Class No.	Brief description of the Topic/Chapter to be taught	Remarks
1	UNIT-1 : Network& Protocol 1.1 Data Communication	
2.	Components required for data communication	
3	1.2 Networks	
4	Category of Network & Network Components	
5	1.3 Protocol & Architecture	
6	Standards	
7	OSI Model	
8	TCP/IP Model	
9	UNIT-2 : Data Transmission & Media 2.1 Data transmission Concepts	
10	Data transmission Terminology	
11	2.2 Analog and Digital Data transmission	
12	2.3 Transmission impairments	
13	Channel capacity	
14	2.4 Transmission media	

15	Guided Transmission-Twisted Pair Cable	
16	Guided Transmission-Coaxial Cable	
17	Guided Transmission-Optical Fiber Cable	
18	Wireless Transmission	
19	Wireless Transmission	
20	UNIT-3 : Data Encoding	
	3.1 Data encoding	
21	3.2 Digital data digital signals	
22	3.3 Digital data analog signals	
23	3.4 Analog data digital signals	
24	3.5 Analog data analog signals	
25	UNIT-4 : Data Communication & Data link control	
	4.1 Asynchronous and Synchronous Transmission	
26	4.2 Error Detection	
27	4.3 Line configuration	
28	4.4 Flow Control	
29	4.5 Error Control	
30	4.6 Multiplexing	
31	4.7 FDM synchronous TDM	
32	4.8 Statistical TDM	
33	UNIT-5 : Switching & Routing	
	5.1 Circuit Switching networks	
34	5.2 Packet Switching principles	
35	5.3 X.25	
36	4.4 Routing in Packet switching (Contd...)	
37	Routing in Packet switching	
38	4.5 Congestion	
39	4.6 Effects of congestion	
40	Congestion control	
41	4.7 Traffic Management	

42	4.8 Congestion Control in Packet Switching Network.	
43	UNIT-6 : LAN Technology	
	6.1. Topology	
44	Transmission Media	
45	6.2 LAN protocol architecture	
46	6.3 Medium Access control	
47	6.4 Bridges, Hub, Switch	
48	6.4 Bridges, Hub, Switch	
49	6.5 Ethernet (CSMA)	
50	Ethernet (CSMA/CD)	
51	Fiber Channel	
52	6.6 Wireless LAN Technology..	
53	UNIT-7 : TCP/IP	
	7.1 TCP/IP Protocol Suite (Contd...)	
54	7.1 TCP/IP Protocol Suite	
55	7.2 Basic Protocol functions (Contd...)	
56	7.2 Basic Protocol functions	
57	7.3 Principles of Internetworking (Contd...)	
58	7.3 Principles of Internetworking	
59	7.4 Internet Protocol operations	
60	7.5 Internet Protocol	

S.P.S.
Signature of the Faculty

P. Mohapatra
Signature of the H.O.D