

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:	Predeep Ranjan Dhal	

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

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


Signature of the Faculty


Signature of the H.O.D