

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:		Soumya Sahoo
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	GuidedTransmission-TwistedPairCable	
16	GuidedTransmission-CoaxialCable	
17	GuidedTransmission-OpticalFiberCable	
18	WirelessTransmission	
19	WirelessTransmission	
20	UNIT-3:DataEncoding	
21	3.1Dataencoding	
22	3.2Digitaldatadigitalsignals	
23	3.3Digitaldataanalog signals	
24	3.4Analogdatadigitalsignals	
25	3.5Analogdataanalog signals	
26	UNIT-4:DataCommunication&Datalinkcontrol	
27	4.1AsynchronousandSynchronousTransmission	
28	4.2ErrorDetection	
29	4.3Lineconfiguration	
30	4.4FlowControl	
31	4.5ErrorControl	
32	4.6Multiplexing	
33	4.7FDMsynchronousTDM	
34	4.8StatisticalTDM	
35	UNIT-5:Switching&Routing	
36	5.1CircuitSwitchingnetworks	
37	5.2PacketSwitchingprinciples	
38	5.3X.25	
39	4.4RoutinginPacketswitching(Contd...)	
40	RoutinginPacketswitching	
41	4.5Congestion	
42	4.6Effectsofcongestion	
43	Congestioncontrol	
44	4.7TrafficManagement	

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	6.5 Ethernet (CSMA)	
50	Ethernet (CSMA/CD)	
51	Fiber Channel	
52	6.6 Wireless LAN Technology..	
53	UNIT-7: TCP/IP	
54	7.1 TCP/IP Protocol Suite (Contd...)	
55	7.1 TCP/IP Protocol Suite	
56	7.2 Basic Protocol functions (Contd...)	
57	7.2 Basic Protocol functions	
58	7.3 Principles of Internetworking (Contd...)	
59	7.3 Principles of Internetworking	
60	7.4 Internet Protocol operations	
	7.5 Internet Protocol	


Signature of the Faculty


Signature of the H.O.D