Lesson Plan

Name Of Faculty **: Ravinder Sheoran**
Discipline **: Computer Engg.**
Semester **: Vth**
Subject **:Computer Network**
Lesson Plan Duration: 16 Weeks
Work Load (Lecture / Practical) per week (In hours): Lecture-4, Practical-2)

Week	Theory		Practical	
	Lecture Day	**Topic (Including Assignment / Test)**	**Practical Day**	**Topic**
1	1	Models of network computing,Networking Models	1	Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network
	2	Peer to peer network,Server Client Network,Network Services		
	3	Concept of switching,Switching Techniques		
2	1	Assignment And Revision	2	Recognition and use of various types of connectors RJ-45, RJ-11,BNC
	2	OSI Reference Model		
	3	Function of various layers in OSI Reference Model		
3	1	Function of various layers in OSI Reference Model	3	Recognition of network devices (Switches, Hub, Routers of access points for Wi-Fi
	2	Function of various layers in OSI Reference Model		
	3	Function of various layers in OSI Reference Model		
4	1	Function of various layers in OSI Reference Model	4	Making of cross cable and straight cable
	2	Assignment And Revision		
	3	Concept of physical and logical addressing		
5	1	IPV4 addressers- Address space, Notations, Classful Addressing, Classl	5	Viva Voice
	2	Classless Addressing, Network Address Translation.		
	3	Different classes of IP addressing, special IP address		
6	1	Sub netting and super netting,Loop Back concept	6	Study and Demonstration of sub netting of IP address
	2	Sub netting and super netting,Loop Back concept		
	3	IPV4 and IPV6 packet Format		
7	1	IPV4 and IPV6 packet Format	7	Study and Demonstration of sub netting of IP address
	2	Assignment And Revision		
	3	Test 1		
8	1	Ethernet Specification and Standardization	8	Identify the IP address of a workstation and the class of the address and configure the
	2	10 Mbps (Traditional Ethernet), 10 Mbps (Fast Ethernet)		
	3	10 Mbps (Traditional Ethernet), 10 Mbps (Fast Ethernet)		
9	1	1000 Mbps (Gigabit Ethernet)	9	Identify the IP address of a workstation and the class of the address and configure the
	2	Introduction to Media Connectivity (Leased lines, ISDN, PSTN		
	3	RF, DSL, VSAT, Optical and IPLC)		
10	1	Introduction to Media Connectivity (Leased lines, ISDN, PSTN	10	Install and configure a network interface card in a workstation.
	2	RF, DSL, VSAT, Optical and IPLC)		
	3	Assignment And Revision		
11	1	Test 2	11	Viva Voice
	2	Network connectivity Devices:-NICs		
	3	Hubs, bridges,Repeaters, switches		
12	1	Hubs, bridges,Repeaters, switches	12	Installation of Network Operating System(NOS)
	2	Multiplexers,Modems		
	3	Routers,Gateways		
13	1	Routers,Gateways	13	Installation of Network Operating System(NOS)
	2	Assignment And Revision		
	3	Trouble Shooting process		
14	1	Trouble Shooting Tools:PING,IPCONFIG	14	Use of Netstat and its options
	2	IFCONFIG, NETSTAT, TRACEROOT		
	3	Wiresharp/ Dsniffer/ Pcop		
15	1	IEEE 802.11:-Architecture,	15	Connectivity troubleshooting using PING, IPCONFIG, IFCONFIG
	2	IEEE 802.11:-Architecture,		
	3	Bluetooth- Architecture		
16	1	Bluetooth- Architecture	16	Viva Voice
	2	Assignment And Revision		
	3	Test 3		