

### Lesson Plan

**Name of Faculty** : **Devi Prassan**  
**Discipline** : **Electronics & Comm. Engg.**  
**Semester** : **5th**  
**Subject** : **Computer Networks**

**Lesson Plan Duration** : **16 weeks**

**Work load (Lecture /Practical) per week (in hours): Lectures—03, Practical—03**

Week	Lecture Day	Theory	Practical	
		Topic (Including Assignment/ Test)	Practical Day	Topic
1	1	Introduction to computer networks		
	2	Peer-to-peer Network, Server Client Network		
	3	Describe LAN, MAN		
	4	Describe WAN		
2	5	Network Services		
	6	Network Services		
	7	Topologies		
	8	Switching Techniques		
3	9	Revision		
	10	Assignments		
		Standards		
	11	- OSI Reference Mode		
4	12	OSI Physical layer concepts		
	13	OSI Data-link layer concepts		
	14	OSI Networks layer concepts		
	15	OSI Transport layer concepts		
5	16	OSI Session layer concepts		
	17	OSI presentation layer concepts		
	18	OSI Application layer concepts		
	19	Revision		
6	20	Assignments		
	21	Introduction to TCP/IP		
	22	Concept of physical and logical addressing		
	23	Different classes of IP addressing		
7	24	Special IP address		
	25	Sub netting and super netting		
	26	Loop back concept		
	27	IPV4 and IPV6 packet Format		
8	28	Configuring IPV4 and IPV6		
	29	Revision		
	30	Assignments		
	31	Types of Cables( Coaxial, Twisted Pair), Shielded and Unshielded Pair of Cables		
9	32	Straight wire Cable, CrossOver Cables with colour coding.		
	33	Ethernet Specification and Standardization:		
	34	10 Mbps (Traditional Ethernet), 100 Mbps (Fast Ethernet)		
	35	1000 Mbps (Gigabit Ethernet), Leased lines.		
	36	Use of RJ45		

10	37	RJ11, BNC		
	38	SCST.		
	39	Revision		
	40	Assignments		
11	41	Introduction to Network connectivity Devices		
	42	NICs Hubs		
	43	Repeaters		
	44	Switches		
12	45	Routers		
	46	Routing Protcols, Configuration of Routers		
	47	VOIP		
	48	Net-to-Phone Telephony		
13	49	Revision		
	50	Assignments		
	51	Network Administration / Security		
	52	Client/Server Technology		
14	53	Server Management		
	54	RAID management		
	55	Mirroring		
	56	Cryptography		
15	57	Ethical Hacking		
	58	Revision		
	59	Assignments		
	60	Wireless MAN, Networking		
16	61	Wireless LAN, Wi-Fi		
	62	WiMax (Broad-band Wireless) and Li-Fi		
	63	Revision		
	64	Revision		