

Lesson Plan

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

Week	Lecture Day	Theory
		Topic (Including Assignment/ Test)
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	Wireless MAN, Networking
	59	Wireless LAN, Wi-Fi
	60	WiMax (Broad-band Wireless) and Li-Fi