Name of the Faculty	:	Ms. Madhu Madhan
Discipline	:	Computer Engg.
Semester	:	5 th
Subject	:	Computer Networks
Lesson Plan Duration	:	15 weeks

Work Load (Lecture / Practical) per week (in hours): Lectures-03, Practical-03

Week	Theory		Practical	
	Lecture day	Topic (including assignment / test)	Practical Day	Торіс
	1st	Unit-1-Networks Basics	1st	Recognize the
1 st	2nd	Concept of network - Models of network computing		physical topology and cabling (coaxial, OFC, UTP, STP)of a network.
	3rd	- Networking models		
				Bassanition and use
	4th	- Peer-to –peer Network	2nd	of various types of
2nd	5th	Server Client Network - Network Services		connectorsRJ-45, RJ- 11, BNC and SCST
	6 th	Concept of switching - Switching Techniques		
3rd	7th	NETWORKING MODELS :-OSI Model Definition, Layered Architecture	3rd	Recognition of network devices (Switches, Hub, Routers of access points forWi-Fi
	8th	Functions of various layers:- TCP/IP Model: Definition, Functions of various layers		
	gth	Comparison between OSI and TCP/IP model		
4th	10 th	Function of various layers in OSI ReferenceModel	.4th	Making of cross cable andstraightcable
	11 th	Unit2:_TCP/IP ADDRESSING 2 Concept of physical and logical addressing 2 2 2 2 2 2 2 2 2 2 2 2 2		
	12th	PV4 addresses – Address space, Notations	-	
	13 th	Classful Addressing- Different IP address classes, Classes & Blocks, Net-id & Host-Id,	5th	Install and configure a network interface card in a

5th	14 th	Masks, Address depletion 2 Classless Addressing – Address blocks, Masks 2 Special IP Addresses	workstation
	15 th	Subnetting and Supernetting	
6 th	16 th	Loop back concept 2	
	17 th	Network Address Translation 2 IPV6 Header	

	18 th	Network Address Translation ፺ IPV4 Header ፺ IPV6 Header	6th	Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	19 th	Unit:-3NETWORK ARCHITECTURE		
		Ethernet specification		
7 th	20 th	standardization: 10 Mbps (Traditional Ethernet),		
			7th	
	21 st	10 Mbps(Fast Ethernet) and 1000 Mbps (Gigabit Ethernet)	_	Managing user accounts in windows and LINUX
8th	22 nd	NETWORK CONNECTIVITY:-Network connectivity Devices	8th	Study and Demonstration of sub netting of IP
	23rd	NICs D Hubs, Switches, D		address
	24 th	Routers, Repeaters, Modem, Gateway		
9 th	25 th	Configuration of Routers & Switches	gth	Use of Netstat
	26 th	Unit-3:-revision		and itsoptions.
	27 th	Unit 4:-NETWORK ADMINISTRATION		Connectivity

	28 th	Cryptography, using secure protocols	10 th	troubleshooting
10 th	29 th	Trouble Shooting Tools: PING, IPCONFIG, D	1	USINGPLING, IPCONFIG, UECONEIG
	30th	DIFCONFIG, NETSTAT,		IFCONFIG
11 th	31 st	TRACEROOT, Wireshark, Nmap	11th	Installation of Network Operating
	32nd	, TCPDUMP, ROUTEPRINT		System (NOS)
	33rd	DHCP Server		
12 th	34 th	Workgroup/Domain Networking		
		□ Unit:-V -I Revision	12 th	Visit to nearby industry fo rlatest networking techniques
	35 th			
	36 th	UNIT V INTRODUCTION TO WIRELESS NETWORKS		
	37 th	Introduction to wireless LAN IEEE 802.11,		
13 th			. oth	Practices on
	38 th	Introduction to bluetooth - architecture,	1301	practicals
	39 th	WiMax ad Li-Fi		
	40 th	Wireless Security application	14th	Practices on practicals
14 th	41 st	Comparison between bluetooth and Wifi		
	42 nd	Unit-5 revission		
15 th	43rd	CLOUD COMPUTING:Definition of Cloud Computing and advantages of Cloud Computing.	15 th	Practices on practicals
	44th	DCloud Computing service model- SaaS, PaaS, Iaas.		
	45 th	Deployment model-Private Cloud, Public Cloud, Hybrid, Community cloud.		
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