Name of the Faculty Discipline Semester and Subject Lesson Plan Duration Krishan Kumar Computer Engg 5th , Computer Network 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	Networks Basics		Recognize the physical topology	
1st	2nd	Models of network computing	1st	and cabling (coaxial, OFC, UTP, STP) of a network	
	3rd	Networking models		,	
	4th	Peer-to -peer Network		Recognition and use of various	
2nd	5th	Server Client Network,	2nd	types of connectors RJ-45, RJ-11,BNC and SCST	
	6th	LAN, MAN and WAN			
	7th	Network Services	3rd	Recognition of network devices (Switches, Hub, Routers of access points for Wi-Fi	
3rd	8th	Network topologies			
	9th	Switching Techniques Circuit	1		
4th	10th	Message Switching		Making of cross cable and straight	
	11th	Packet Switching	4th	cable	
	12th	Revision	1		
	13th	OSI Reference Model Introduction		Making of cross cable and straight	
	14th	Function of various layers in OSI	1	cable	
5th		Reference Model	5th		
	15th	Function of various layers in OSI			
6th	16th	Reference Model Function of various layers in OSI Reference Model		Install and configure a network interface card in a workstation	
	17th	Function of various layers in OSI Reference Model	- 6th -	interface card in a workstation	
	18th	Function of various layers in OSI Reference Model			
	19th	Introduction to TCP/IP and function of various layes	7th	Identify the IP address of a workstation and the class of the	
7th	20th	Comparison between OSI and TCP/IP Model		address and configure the IP Address on a workstation	
	21st	Revision			
	22nd	Concept of physical and logical addressing		Managing user accounts in windows and LINUX	
8th	23rd	Classful Addressing, Classless,Addressing,	8th		

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	24th	Different classes of IP addressing,		
		special IP Address		
9th	25th	Classless Addressing ,Address Blocks,		Managing user accounts in
		Masks		windows and LINUX
	26th	Sub netting and super netting	9th	
			3.11	
	27th	IPv4 and IPv6 HEADER		
10th	28th	IPV4 and IPV6 packet Format		Sharing of Hardware resources in
				the network
	29th	REVISION	1046	
			10th	
	30th	Ethernet Specification and		
		Standardization		
	31st	100 Mbps (Fast Ethernet)		Use of Netstat and its options
				·
	32nd	1000 Mbps (Gigabit Ethernet),		
11th		Introduction to Media)	11th	
-	33rd	Network Connectivity		
	33.4	Devices,NICs,Multiplexers		
	34th	Hubs (type of Hubs), Switches		Connectivity troubleshooting
	3401	Tidos (type of Tidos),5 witches		using PING, IPCONFIG, IFCONFIG
	35th	Bridge, Router- Repeaters,		
12th	33(11	Gateways, Modems	12th	
	36th	Network security Principles,		
	30011	Cryptography using secure protocols		
	37th	Network Trouble Shooting Tools:		Installation of Network Operating
	37111	PING,IPCONFIG,IFCONFIG		System(NOS)
-	20+6			System(NO3)
13th	38th	NETSTAT, TRACEROOT ,Wireshark	13th	
	201	A MODELLA OF DOLUMED DATE.		
	39th	Nmap, TCPDUMP, ROUTEPRINT		
	40th	DUCD Sarvar Worksroup/Domain		Create a network at least 6
	4001	DHCP Server, Workgroup/Domain		Create a network at least 6 Computers
	A4 -+	Networking		Computers
14th	41st	Introduction to Wireless LAN 802.11	14th	
-	42	WIMAY III T		
	42nd	Wi MAX and Li Fi		
	43rd	IEEE 802.11- Architecture		Visit to nearby industry for latest
				networking techniques
	44th	Bluetooth- Architecture		
15th			15th	
	45th	Comparison between Bluetooth and		
		WiFi		
15th		Bluetooth- Architecture Comparison between Bluetooth and	15th	-