

## LESSON PLAN

<b>Discipline:</b> Computer Science & Engg.	<b>Semester:</b> forth(4th)	<b>Name of the Faculty:</b> Er. Pramod Kumar Sahu
<b>Subject:</b> Networking Lab (Pr 2)	<b>No. of days/week class allotted:</b> Three (3)	<b>Semester from Date:</b> 16.01.24 <b>to Date:</b> 26.04.24 <b>No. of Weeks:</b> 15
WEEK	CLASS DAY	PRACTICAL EXPERIMENTS
1 <sup>st</sup>	1 <sup>st</sup>	Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
2 <sup>nd</sup>	1 <sup>st</sup>	Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST Making of cross cable and straight cable
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
3 <sup>rd</sup>	1 <sup>st</sup>	Install and configure a network interface card in a workstation
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
4 <sup>th</sup>	1 <sup>st</sup>	Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
5 <sup>th</sup>	1 <sup>st</sup>	Managing user accounts in windows and LINUX
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
6 <sup>th</sup>	1 <sup>st</sup>	Sharing of Hardware resources in the network.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
7 <sup>th</sup>	1 <sup>st</sup>	Use of Net stat and its options. Connectivity troubleshooting using PING, IPCONFIG
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class

8 <sup>th</sup>	1 <sup>st</sup>	Installation of Network Operating System(NOS)
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
9 <sup>th</sup>	1 <sup>st</sup>	Create a network of at least 6 computers.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
10 <sup>th</sup>	1 <sup>st</sup>	Study of Layers of Network and Configuring Network Operating System
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
11 <sup>th</sup>	1 <sup>st</sup>	Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
12 <sup>th</sup>	1 <sup>st</sup>	Study of Scaling of Networks, Design verities of LAN and forward of Traffic
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
13 <sup>th</sup>	1 <sup>st</sup>	Study WAN concepts and Configure and forward Traffic in WAN Configure IPv4 and IPv6 and learn Quality, security and other services
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
14 <sup>th</sup>	1 <sup>st</sup>	Learn Network programming
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class
15 <sup>th</sup>	1 <sup>st</sup>	Troubles shoot Networks.
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	Review Class