

# KIIT POLYTECHNIC, BHUBANESWAR

## LESSON PLAN

Session (2023 -2024)

<b>Discipline:</b> Electronics & Telecommunication Engineering	<b>Semester:</b> 4th, Summer -2024	<b>Name of the faculty:</b> Swasthee Priya Mallick <b>Email d:</b> <a href="mailto:mallick.swasthee@gmail.com">mallick.swasthee@gmail.com</a>
<b>Subject:</b> Networking Lab (Pr-2)	<b>No. of Days/week:</b> 02 (2 periods / Day) Experiments will be performed in groups of 30 students	<b>Start Date:</b> 16/01/2024 <b>End Date:</b> 2 6 / 0 4 / 2 0 2 4

Week	Class Day	Practical Topics
1 <sup>st</sup>	1st	Recognize the physical topology and cabling (coaxial, OFC, UTP, STP) of a network.
	2nd	Recognition and use of various types of connectors RJ-45, RJ-11, BNC and SCST
2 <sup>nd</sup>	1st	Revision /Assessment
	2nd	Making of cross cable and straight cable
3 <sup>rd</sup>	1st	Revision /Assessment
	2nd	Revision /Assessment
4 <sup>th</sup>	1st	Install and configure a network interface card in a workstation.
	2nd	Revision /Assessment
5 <sup>th</sup>	1st	Identify the IP address of a workstation and the class of the address and configure the IP Address on a workstation
	2nd	Revision /Assessment
6 <sup>th</sup>	1st	Managing user accounts in windows and LINUX
	2nd	Sharing of Hardware resources in the network
7 <sup>th</sup>	1st	Revision /Assessment
	2nd	Use of Netstat and its options
8 <sup>th</sup>	1st	Revision /Assessment
	2nd	Connectivity troubleshooting using PING, IPCONFIG
9 <sup>th</sup>	1st	Revision /Assessment
	2nd	Installation of Network Operating System(NOS)
10 <sup>th</sup>	1st	Create a network of at least 6 computers.
	2nd	Study of Layers of Network and Configuring Network Operating System
11 <sup>th</sup>	1st	Revision /Assessment
	2nd	Study of Routing and Switching, configuring of Switch and Routers, troubleshooting of networks
12 <sup>th</sup>	1st	Study of Scaling of Networks, Design verities of LAN and forward of Traffic
	2nd	Study WAN concepts and Configure and forward Traffic in WAN

13 <sup>th</sup>	1st	Configure IPv4 and IPv6 and learn Quality, security and other services
	2nd	Learn Network programming
14 <sup>th</sup>	1st	Troubles shoot Networks.
	2nd	Revision /Assessment
15 <sup>th</sup>	1st	Practice Test
	2nd	Practice Test