PNS School Of Engg. & Tech. Marshaghai, Kendrapara LESSON PLAN Session (2025 -2026)

Discipline: Computer Science & Engineering	Semester 4th	Name of the faculty : Madhusmita Ram	
Subject: OS Lab	No. of Days/Week: 02	Start Date:22/12/2025	
		End Date:18/04/2026	
Week	**Class Day**	**Name of Experiment**	
1st	1st	Introduction to Linux & Terminal Commands (whoami, date, cal, uname, man)	
	2nd	File & Directory Management(ls, pwd, cd, mkdir, rmdir, touch)	
2nd	1st	File Manipulation(cp, mv, rm)	
	2nd	File Permissions(chmod, chown, chgrp)	
3rd	1st	File Operations & Text Processing (File Viewing & Editing)	
	2nd	Text Processing(grep, cut, sort, uniq, diff)	
4th	1st	Advanced Text Processing(awk, sed)	
	2nd	I/O Redirection(>, >>, <, |, tee)	
5th	1st	Process Management & Users(Process Monitoring- ps, top, htop)	
	2nd	Process Control(kill, nice, renice, jobs, fg, bg)	
6th	1st	Job Scheduling(cron, at)	
	2nd	User & Group Management(useradd, usermod, passwd, groupadd, gpasswd)	
7th	1st	Package Management & Networking(Package Management)	
	2nd	Networking Tools(ifconfig, ip, ping, netstat, ss)	
8th	1st	Network Utilities(traceroute, wget, curl)	
	2st	Remote Access(ssh, scp, rsync)	
9th	1st	Disk Management & Shell Scripting(Disk Usage)	
	2nd	File System Management, Basic Shell Scripting	
10th	1st	Advanced Shell Scripting	
	2nd	System Monitoring & Logs	
11th	1st	Log Management	
	2nd	Security & Services	
12th	1st	Firewall & Security	
	2nd	Linux Services & Web Servers	

Madhusmita Ram

Biswaranjan Swain

SIGNATURE OF LECTURER   **SIGNATURE OF H.O.D**