

LESSON PLAN

SUB: OPERATING SYSTEMS LAB
BRANCH:- COMPUTER SCIENCE & ENGG.
SEMESTER: 4th
NAME OF FACULTY: ABHISHEK PADHI (GF in CSE)



**GOVERNMENT POLYTECHNIC,
BHADRAK**

SESSION: 2025-26

18/12/24
Hod, CSE

18/12/24
Academic Co-ordinator

Academic Co-ordinator, Govt. Polytechnic, Bhadrak

Principal

DEPARTMENT OF Computer Science & Engg.,

Discipline: Computer Science & Engineering	Semester: 4 th , Summer/2025	Name of the Faculty: ABHISHEK PADHI Email ID: abhishekpadhi24@gmail.com
Subject: OPERATING SYSTEMS Lab, PR-1	No. of Days/week: 04	Start Date: 22.12.2025 End Date: 18.04.2026

Week	Class Day	Practical Topics
1 st	1st	Introduction to linux commands: Use Ls, pwd
	2nd	Introduction to linux commands: cd, mkdir
2nd	1st	Introduction to Terminal commands: cp, mv
	2nd	Introduction to Terminal commands: rmkdir, touch
3rd	1st	Introduction to file operations: use cat , nano
	2nd	Introduction to file operations: vi, grep
4th	1st	Introduction to Text processing: diff, uniq
	2nd	Introduction to Text processing: sed, cut
5th	1st	Introduction to process management: use ps, top
	2nd	Introduction to process management: htop, kill
6 th	1 st	Introduction to process management: nice, renice
	2 nd	Introduction to process management: jobs, fg
7 th	1st	File ownership & permission
	2nd	Introduction to package management: install, remove
8th	1 st	Introduction to package management: update packages
	2 nd	Introduction to package management: Use ifconfig , ss
9th	1 st	Introduction to package management: wget, curl SSH
	2 nd	Introduction to Disk management: Use df , du
10th	1 st	Introduction to Disk management: Mount, Umount
	2nd	Introduction to Storage management: Implement loops, conditions
11th	1 st	Introduction to Storage management: Functions in bash, file systems
	2 nd	Introduction to System monitoring: Use vmstat, iostat
12th	1 st	Introduction to System monitoring. Sar, Uptime
	2nd	Introduction to Performance testing: Logrotate, syslog

13th	1 st	Introduction to Performance testing: Dimesg
	2nd	Introduction to Firewall: Use iptables, firewalld
14th	1 st	Introduction to Firewall: UFW , configure SSH security
	2nd	Introduction to Security
15th	1 st	Introduction to Security & Linux services
	2nd	Configure web services

Abhishek Pathak
18/2725
Signature of faculty