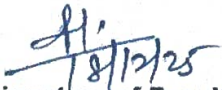
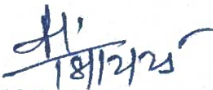


Academic Lesson Plan of SUMMER 2026

Department : CSE	Semester : 4TH	Name of the teaching faculty: PRANATI PATTNAIK
Subject: OPERATING SYSTEMS	No. of days/per week class allotted . 3p/week.	Semester from :22nd December 2026
		No. of weeks:15 weeks
		Topics to be covered:
1st week	1 st	Basic concepts of OS
	2 nd	UNIX/LINUX Architecture
	3 rd	UNIX/LINUX Architecture
2nd week	1 st	Kernel, services and systems calls
	2 nd	Kernel, services and systems calls
	3 rd	System programs
3rd week	1 st	Process concepts
	2 nd	Process concepts
	3 rd	Operations on processes
4th week	1 st	IPC
	2 nd	IPC
	3 rd	Process Scheduling
5th week	1 st	Multi-threaded programming
	2 nd	Memory allocation
	3 rd	Swapping
6th week	1 st	Paging
	2 nd	Segmentation
	3 rd	Virtual Memory
7th week	1 st	Various faults
	2 nd	Concept of a file
	3 rd	Access methods
8th week	1 st	Directory structure
	2 nd	File system mounting
	3 rd	Filesharing and protection
9th week	1 st	File system structure and implementation
	2 nd	Directory implementation
	3 rd	Free space management
10th week	1 st	Efficiency and performance
	2 nd	Different types of file systems
	3 rd	Mass storage structure- overview
11th week	1 st	Disk structure
	2 nd	Disk attachment
	3 rd	Disk scheduling algorithms
12th week	1 st	Swap space management
	2 nd	RAID types-RAID0,RAID -1, RAID 5
	3 rd	RAID types-RAID0,RAID -1, RAID 5
13th week	1 st	Concept of deadlock,Resources
	2 nd	Deadlock Prevention: Banker Algorithm & Safety Algorithm
	3 rd	The Ostrich Algorithm
14th week	1 st	Deadlock Detection and Recovery
	2 nd	Deadlock Detection and Recovery
	3 rd	Deadlock Prevention
15th week	1 st	Authentication
	2 nd	Access Control, Access Rights, System Logs
	3 rd	Access Control, Access Rights, System Logs


 Signature of Faculty


 HOD, CSE