



Synergy School of Engineering, Dhenkanal

Lesson Plan

Subject-Operating Systems (TH-1)	Branch-CSE	Semester-4 th Session- <i>2025-26</i>
Name of the Faculty-Aparna Priyadarshini	No.of Days/week-03	Start Date: 22/12/25 End Date:18/04/25

Week	Class	Topic
1	1st	Introduction to Operating System
	2nd	Basic Concepts of Operating System
	3rd	Functions of Operating System
2	1st	OS Structure
	2nd	UNIX / Linux Architecture
	3rd	UNIX / Linux Architecture (contd.)
3	1st	Kernel
	2nd	OS Services
	3rd	System Calls
4	1st	System Programs
	2nd	Revision (Unit 1)
	3rd	Process Concept
5	1st	Process States
	2nd	Process Control Block (PCB)
	3rd	Operations on Process
6	1st	Inter Process Communication (IPC)
	2nd	CPU Scheduling
	3rd	Scheduling Algorithms
7	1st	Scheduling Problems
	2nd	Multithreading
	3rd	Thread Models
8	1st	Memory Management Overview
	2nd	Memory Allocation
	3rd	Swapping

9	1st	Paging
	2nd	Segmentation
	3rd	Virtual Memory
10	1st	Page Faults & Memory Faults
	2nd	Numerical Problems
	3rd	Revision (Unit III)
11	1st	File Concept
	2nd	File Access Methods
	3rd	Directory Structure
12	1st	File System Mounting
	2nd	File Sharing & Protection
	3rd	File System Structure
13	1st	Directory Implementation
	2nd	Free Space Management
	3rd	Efficiency & Performance
14	1st	Types of File Systems
	2nd	Mass Storage Structure
	3rd	Disk Structure
15	1st	Disk Scheduling Algorithms
	2nd	RAID (0,1,5)
	3rd	OS Security: Authentication & Access Control

Prepared By:- Aparna M
20/12/25

HOD
Comp. Science & Engg. Dept.

SSE, Dhenkanal

Verified By:-

Somashree
20/12/25