PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH

LESSON PLAN

Session-2023-2024

Discipline: Computer Science Engg. Semester: 4th

Subject: Operating System

Name of the Teaching Faculty: Iswarchar Badgayan

Subject: Operating System No. of Days/per week class allotted : 04

Semester From Date :16-01-2024 To Date :26-04-2024 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	Day 1	Operating System & its functions
	Day 2	Evolution of OS and types of OS
1	Day 3	Structure of O.S
	Day 4	process control Block & concept
	Day 1	Inter-process communication and process interaction
	Day 2	process state and implementation issues of processes
2	Day 3	process scheduling, Job scheduling (Introduction)
	Day 4	process Synchronization
	Day 1	process Synchronization
	Day 2	Semaphore
3	Day 3	concurrency
	Day 4	Types of scheduling

Signature of the Faculty

Subject: Operating Systems No. of Days/per week class allotted : 04

Semester From Date : 16-01-2024 To Date : 26-04-2024 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	Day 1	Scheduling type (cont.)
	Day 2	Introduction to memory management
4	Day 3	Logical and physical address space, Swapping on contiguous memory allocation
	Day 4	contiguous memory allocation non-contiguous memory allocation
	Day 1	Swapping
	Day 2	paging
5	Day 3	paging (cont.)
	Day 4	Segmentation
	Day 1	Virtual memory
	Day 2	Demand paging
6	Day 3	page fault and handling page fault
	Day 4	Device management.

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Semester From Date :16-01-2024 To Date :26-04-2024 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	Day 1	Dedicated, shared, virtual devices
	Day 2	Device Allocation
7	Day 3	Device Allocation (cont...)
	Day 4	I/O handler
	Day 1	I/O scheduling
	Day 2	I/O scheduling (cont..)
8	Day 3	I/O scheduling (cont.)
	Day 4	I/O scheduling (cont..)
	Day 1	I/O Traffic control
	Day 2	Dead lock
9	Day 3	Deadlock concept
	Day 4	Deadlock System model

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Semester From Date :16-01-2024 To Date :26-04-2024 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	Day 1	Deadlock Detection
	Day 2	Resource Allocation Graph
10	Day 3	Deadlock handling
	Day 4	Deadlock handling (cont..)
	Day 1	Deadlock Recovery
	Day 2	Deadlock prevention
11	Day 3	Banker's Algorithm Safety Algorithm
	Day 4	File Organisation
	Day 1	Directory and File Structure
	Day 2	File Access Methods
12	Day 3	File Access Methods
	Day 4	File System Reliability

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Semester From Date : 16-01-2024 To Date : 26-04-2024 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	Day 1	Disk Space Allocation
	Day 2	Disk Space Allocation (cont..)
13	Day 3	Secondary storage Mgmt-
	Day 4	Secondary Storage Mgmt cont
	Day 1	File protection
	Day 2	System programming
14	Day 3	System programming cont ..
	Day 4	Compiler, interpreter
	Day 1	Function of compiler
	Day 2	Difference between compiler & interpreter
15	Day 3	Phases of compiler
	Day 4	phases of compiler cont

Signature of the Faculty