

SYNERGY SCHOOL OF ENGINEERING, DHENKANAL DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

LESSON PLAN

2023 - 24

Discipline: Computer Science & Engineering	Semester:4th Session:	Name of the Teaching Faculty: SmrutiMayee Mishra	
		Subject Code:Th1	
Subject: Operating System	No. Of Days/Week ClassAllotted:4	Semester From Date: 16.01.24 To Date: 27.04.24 No. OfWeeks:15	
Week	Class Day	Theory/Practical Topics	
lst	1st	INTRODUCTION: Objectives and Explain functions of Operating system.	
	2nd	Evolution of Operating system	
	3rd	Structure of operating system	
	4th	PROCESS MANAGEMENT : Process concept, process control	
2nd	1st	Interacting processes, inter process messages,	
		Implementation issues of Processes.	
	2nd	Process scheduling.	
	3rd	Job scheduling	
	4th	Process synchronization, semaphore (cont)	
Brd	1st	Process synchronization, semaphore.	
	2nd	Principle of concurrency, types of scheduling.(cont)	
	3rd	Types of scheduling.	
	4th	Question Answer Discussion	
1	1st	Monthly Class Test-1	
	2nd	MEMORY MANAGEMENT : Memory allocation Techniques	
		Contiguous memory allocation	
	3rd	Noncontiguous memory allocation(cont)	
	4th	Noncontiguous memory allocation	
h	1st	Swapping	
	2nd	Paging .	
	3rd	Segmentation	
	4th	Virtual memory using paging,	
	1st	Demand paging	

	2nd	Page fault handling
2.1	3rd	Question Answer Discussion Question Answer Discussion Answer Discussion
	4th	Question Answer Discussion DEVICE MANAGEMENT : Techniques for Device Management:
		Dedicated
7th	lst	Techniques for Device Management : shared
	2nd	Techniques for Device Management : virtual
	3rd	Device allocation considerations
	4th	I/O Schedule
8th	1st	I/O Device handlers.
9th	2nd	SPOOLING.
	3rd	I/O traffic control
	4th	Question Answer Discussion
	1st	Question Answer Discussion
	2nd	DEADLOCKS: Concept of deadlock, System Model
* LT	3rd	Deadlock Detection
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	4th	Resources allocation Graph
Oth	1st	
	2nd	Methods of Deadlock handling Deadlock avoidance
	3rd	
	4th	Recovery from deadlock
th	1st	Bankers Algorithm
	2nd	Safety Algorithm
	3rd	Question Answer Discussion
		Monthly Class Test-2
	4th	FILEMANAGEMENT : File organization , Directory &file
		structure
h	1st	Sharing of files
	2nd	File access methods,
	3rd	
7	4th	File systems, reliability
	1st	Allocation of disk space (cont)
		Allocation of disk space
	2nd	File protection
	3rd	Secondary storage management (Cont)
	4th	Secondary storage management.

	The second se	Question Answer Discussion
14th	1st	SYSTEM PROGRAMMING: Concept of system programming
	2nd	And show difference from Application Compiler:
		Compiler, functions of compiler
	3rd	Compare compiler and interpreter
	4th	Seven phases of compiler, brief description of each
	1st	Inc /Cont \
	2nd	Seven phases of compiler ,brief description of each phase
	3rd	Question Answer Discussion
	4th	Quiz Test

Smale Mayer Mishon Prepared By:

Smisbu 09/01/29 Verified By:

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