

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session-2024-2025

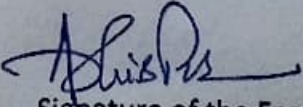
Semester: 4th Discipline: Computer Sc. Engg.

Subject: Operating System.

Name of the Teaching Faculty: Ashis Behara

Subject: Operating System No. of Days/per week class allotted : 04
 Semester From Date : 4/2/2025 To Date: 17/5/2025 No. of Weeks : 15

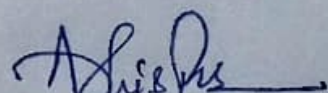
Week	Class Day	Theory / Practical Topics
	1	Operating System and its function
	2	Evolution of O/S and its types.
1	3	Structure of O/S.
	4	process Concept and PCB.
	1	IPC
	2	Process state and issues.
2	3	Process Scheduling and Job Scheduling.
	4	Process Synchronization.
	1	Process Synchronization.
	2	Semaphore.
3	3	Concurrency.
	4	Type of scheduling.


 Signature of the Faculty

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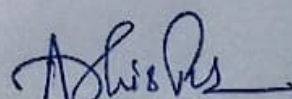
Semester From Date : 4/2/2025 To Date: 17/5/2025 No. of Weeks : 15

Week	Class Day	Theory / Practical Topics
	1	Scheduling
	2	Memory management, linking & loading.
4	3	Memory management.
	4	Contiguous and non-contiguous Allocation.
	1	Swapping.
	2	Paging
5	3	Paging [cont]
	4	Segmentation
	1	virtual Memory.
	2	Demand Paging
6	3	Page fault.
	4	Introduction to Device mgmt.


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 Semester From Date : 4/2/2025 To Date: 12/5/2025 No. of Weeks : 15

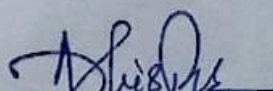
Week	Class Day	Theory / Practical Topics
	1	Device Allocation [cont.]
	2	Device Allocation [cont.]
7	3	Device Allocation.
	4	I/O Handler.
	1	I/O scheduling. [cont.]
	2	I/O scheduling
8	3	I/O traffic control
	4	Deadlock.
	1	Deadlock system Model. [cont.]
	2	Deadlock system Model
9	3	Deadlock Detection
	4	Resource Allocation Graph


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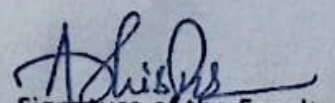
Semester From Date: 4/2/2025 To Date: 17/5/2025 No. of Weeks: 15

Week	Class Day	Theory /Practical Topics
	1	Resource Allocation Graph.
	2	Deadlock Handling [cont.]
10	3	Deadlock Handling.
	4	Deadlock Recovery and Prevention.
	1	Banker's Algorithm
	2	Safety Algorithm.
11	3	Introduction to File Organization.
	4	Directory and File Structure.
	1	File Access Method [cont.]
	2	File Access Method.
12	3	File System Reliability.
	4	Allocation of disk space. [cont.]


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 Semester From Date : 4/2/2025 To Date: 17/5/2025 No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
	1	Allocation of disk space.
	2	Secondary Storage management [cont].
13	3	Secondary storage management. [
	4	File Protection.
	1	Linux fundamental.
	2	System Programming.
14	3	System Programming
	4	Introduction to Compiler & Interpreter.
	1	Four Phases of Compiler.
	2	Semantics and Syntax Analysis.
15	3	Token Generation
	4	Benefit & drawback of Compiler & Interpreter.


 Signature of the Faculty