



**BHUBANANANDA ORISSA SCHOOL OF ENGINEERING,
CUTTACK**

DEPARTMENT OF INFORMATION TECHNOLOGY

SUMMER ACADEMIC SESSION (2023-24)

Lesson Plan

SEMESTER- 4TH

BRANCH: Information Technology

SUBJECT: OPERATING SYSTEM

(FACULTY NAME: - BISWABANDITA MOHANTY, IT)

No of weeks:-15

No of classes available per week: 4

Total period available: 60

Class duration: 55 minutes

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LESSON PLAN

Discipline: IT	Semester: 4th	No. Of period available	Name of the Teaching Faculty: Biswabandita Mohanty (PTGF)
Subject: OS	No. Of Days/per week class allotted: 4 periods per week (Mon, Tue, Wed, Thu)		Semester: From Date: 16-01-2024 To Date: 26-04-2024 No. Of Weeks: 15
Week	Class Date		Topics to be covered
1st	16.01.2024		Syllabus discussion
	17.01.2024		Introduction
	18.01.2024		Brief discussion about operating system.
2nd	22.01.2024		1.1 Objectives of operating system.
	24.01.2024		Types of operating system.
	25.01.2024		Explain functions of operating system.
3rd	29.01.2024	1	1.2 Evolution of Operating system
	30.01.2024	1	1.3 Structure of operating system
	31.01.2024	1	2. PROCESS MANAGEMENT 2.1 Process concept
	1.02.2024	1	process control, interacting processes,
4th	05.02.2024	1	2.1 inter process messages 2.2 Implementation issues of Processes
	06.02.2024	1	2.3 Process scheduling, job scheduling
	07.02.2024	1	2.4 Process synchronization, semaphore.
	08.02.2024	1	2.5 Principle of concurrency,
5th	12.02.2024	1	2.5 Types of scheduling
	13.02.2024	1	3. MEMORY MANAGEMENT 3.1 Memory allocation Techniques.
	15.02.2024	1	3.1 Contiguous memory allocation 3.1 non contiguous memory allocation 3.2 Swapping
6th	19.02.2024	1	3.2 Swapping
	20.02.2024	1	3.3 Paging 3.3 Segmentation
	21.02.2024	1	3.3 virtual memory using paging,
	22.02.2024	1	3.4 Demand paging, page fault handling.
7th	26.02.2024	1	REVISION QUESTION DISCUSSION
	27.02.2024	1	4. DEVICE MANAGEMENT 4.1 Techniques for Device Management • Dedicated, • shared and virtual
	28.02.2024	1	Class test1
	29.02.2024	1	4.2 Device allocation considerations I/O traffic control & I/O Schedule.
8 th	4.03.2024	1	4.2 I/O traffic control & I/O Schedule

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	6.03.2024	1	4.2 I/O Device handlers
	07.03.2024	1	4.2 I/O Device handlers 4.3 SPOOLING
9th	11.03.2024	1	Assignment cum Revision
	12.03.2024	1	5. DEAD LOCKS 5.1 Concept of deadlock 5.2 System Mode
	13.03.2024	1	5.3 Dead Lock Detection
	14.03.2024	1	Class test2
10th	18.03.2024	1	5.4 Resources allocation Graph
	19.03.2024	1	5.5 Methods of Deadlock handling
	20.03.2024	1	5.6 Recovery & Prevention Deadlock
	21.03.2024	1	5.6 Explain Bankers Algorithm & Safety Algorithm
11th	27.03.2024	1	Assignment cum Revision
	28.03.2024	1	Doubt clearing class
12th	02.04.2024	1	INTERNAL
	03.04.2024	1	INTERNAL
	04.04.2024	1	6. FILE MANAGEMENT 6.1 File organization Directory & file structure sharing of files
13th	08.04.2023	1	6.2 File access methods, file systems, reliability
	09.04.2023	1	6.3. Allocation of disk space
	10.04.2023	1	6.4 File protection, secondary storage management
14th	15.04.2023	1	7.0 SYSTEM PROGRAMMING 7.1 Concept of system programming and show difference from Application Compiler:
	16.04.2023	1	7.2 Compiler , functions of compiler.
	18.04.2023	1	7.3 Compare compiler and interpreter 7.4 Seven phases of compiler
15th	22.04.2023	1	7.4 Seven phases of compiler, brief description of each phase.
	23.04.2024	1	Doubt clearing class
	24.04.2024	1	Previous years question discussion
	25.04.2024	1	Previous years question discussion