BHADRAK ENGINEERING SCHOOL & TECHNOLOGY (BEST), ASURALI, BHADRAK

OPERATING SYSTEM (Th- 01)

CHAPTER WISE DISTRIBUTION OF PERIODS & EXPECTED MARKS

Sl No	Topics	Periods as per Syllabus	Periods actually needed	Expected Marks
01	Introduction	03	06	05
02	Process Management	10	12	15
03	Memory Management	10	07	20
04	Device Management	10	05	15
05	Dead Locks	10	12	15
06	File Management	10	08	15
07	System Programming	07	08	15
TOTAL		**60**	**58**	100

Sign of Lect. **Sign of HOD.** **Sign of AIC** **Sign of Vice Principal**

LESSON PLAN

Discipline: Computer Science & Engg.	**Semester:** Fourth (4th)	**Name of the Faculty:** Er Satabdi Palit
Subject: Operating System	**No. of days/week class allotted:** Six (6)	**Semester from Date:** 14.02.23 **to Date:** 23.05.23 **No. of Weeks:** 15
WEEK	**CLASS DAY**	**THEORY TOPICS**
1st	1st	**Chapter No.- 1: Introduction** Objectives of operating system.
	2nd	Explain functions of operating system
	3rd	Evolution of Operating system.
	4th	Continue
	5th	Structure of operating system.
	6th	Continue
2nd	1st	***Possible Question Answer Discussion***
	2nd	**Chapter No.- 2: Process Management** Process concept, process control
	3rd	Interacting processes, inter process messages.
	4th	Implementation issues of Processes.
	5th	Process scheduling.
	6th	Job scheduling.
3rd	1st	Process synchronization, semaphore.
	2nd	Continue
	3rd	Principle of concurrency.
	4th	Continue
	5th	Types of scheduling.
	6th	Continue
4th	1st	***Possible Question Answer Discussion***
	2nd	***Monthly Test- 1***

	3rd	**Chapter No.- 3: Memory Management** Memory Allocation Technique: Contiguous memory allocation. Noncontiguous memory allocation.
	4th	Swapping,
	5th	Paging,
	6th	Segmentation
5th	1st	Virtual memory using paging
	2nd	Demand paging. Page fault handling
	3rd	***Possible Question Answer Discussion***
	4th	**Chapter No.- 4: Device Management** Techniques for Device Management-Dedicated. Shared and virtual.
	5th	Device allocation considerations I/O traffic control & I/O Schedule.
	6th	I/O Device handlers.
6th	1st	SPOOLING.
	2nd	Continue
	3rd	***Possible Question Answer Discussion***
	4th	**Chapter No.- 5: Dead Locks** Concept of deadlock.
	5th	System Model
	6th	Continue
7th	1st	Resource Allocation Graph
	2nd	Continue
	3rd	Deadlock Detection
	4th	***Monthly Test- 2***
	5th	Method of Deadlock Handling
	6th	Recovery
8th	1st	Prevention
	2nd	Explain Bankers Algorithm
	3rd	Continue
	4th	Safety algorithm

	5th	***Possible Question Answer Discussion***
	6th	**Chapter No.- 6: File Management** File organization. Directory & file structure. Sharing of files.
9th	1st	File access methods.
	2nd	File systems, reliability.
	3rd	Allocation of disk space
	4th	Continue
	5th	Continue
	6th	File protection.
10th	1st	Secondary storage management.
	2nd	File access methods.
	3rd	***Possible Question Answer Discussion***
	4th	***Monthly Test- 3***
	5th	**Chapter No.- 7: System Programming** Concept of system programming.
	6th	Show differences from Application Programming
11th	1st	Complier.
	2nd	Functions of compiler.
	3rd	Compare compiler and interpreter
	4th	Seven phases of compiler.
	5th	Brief description of each phase.
	6th	Continue
12th	1st	***Possible Question Answer Discussion***
	2nd	Review Class for Chapter No.- 01
	3rd	Review Class for Chapter No.- 01
	4th	Review Class for Chapter No.- 01
	5th	Review Class for Chapter No.- 02
	6th	Review Class for Chapter No.- 02

13th	1st	***Monthly Test- 4***
	2nd	Review Class for Chapter No.- 02
	3rd	Review Class for Chapter No.- 03
	4th	Review Class for Chapter No.- 03
	5th	Review Class for Chapter No.- 03
	6th	Review Class for Chapter No.- 04
14th	1st	Review Class for Chapter No.- 04
	2nd	Review Class for Chapter No.- 04
	3rd	Review Class for Chapter No.- 05
	4th	Review Class for Chapter No.- 05
	5th	Review Class for Chapter No.- 06
	6th	Review Class for Chapter No.- 06
15th	1st	Review Class for Chapter No.- 07
	2nd	Review Class for Chapter No.- 07
	3rd	Previous Year (S- 22) Question Answer Discussion
	4th	Previous Year (S- 22) Question Answer Discussion
	5th	Previous Year (S- 21) Question Answer Discussion
	6th	Previous Year (S- 20) Question Answer Discussion

Chapters covered up to IA: ***1, 2 & 3.***