BALASORE SCHOOL OF ENGINEERING, BALASORE

LESSION PLAN FOR 4TH SEMESTER, SESSION:-2023-24(S-23)

Facultyname - S. Nayak

BRANCH:- COMP. SC. & ENGG.					SEMESTER -4TH	
SUBJECT:- OPERATING SYSTEM					THEORY: - 01	
NAME OF TEACHER:- SUVENDU NAYAK						
SL. No.	Month /No .of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No of periods available as per syllabus	No of periods available as per plan
	FEB-2023(6)		22/02/23	1. INTRODUCTION	6	6
			23/02/23	1.1 Objectives and Explain functions of operating system. cont..		
			24/02/23	1.1 Objectives and Explain functions of operating system.		
			25/02/23	1.2 Evolution of Operating system		
			27/02/23	1.2 Evolution of Operating system		
			28/02/23	1.3 Structure of operating system. CONT..		

Sl. No.	Month /No .of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No of periods available as per syllabus	No of periods available as per plan
	MAR-2022(23)		01/03/23	1.3 Structure of operating system. CONT..	23	23
			02/03/23	1.3 Structure of operating system.		
			03/03/23	REVISION		
			04/03/23	**2. PROCESS MANAGEMENT** 2.1 Process concept, process control,		
			06/03/23	process control block		
			09/03/23	interacting processes. inter process messages.		
			10/03/23	Inter process communication.(ipc}		
			11/03/23	2.2 Implementation issues of Processes.		
			13/03/23	2.3 job scheduling. Process scheduling,		
			14/03/23	2.4 Process synchronization, Semaphore.		
			15/03/23	2.5 Principle of concurrency		
			16/03/23	Types of scheduling. Scheduling Algorithm		
			17/03/23	REVISION		
			18/03/23	**3. MEMORYMANAGEMENT (Introduction)**		
			20/03/23	3.1 Memory allocation Techniques □ Contiguous memory allocation		
			21/03/23	• non contiguous memory allocation		
			22/03/23	3.2 Swapping		
			23/03/23	3.3 Paging		
			24/03/23	Segmentation, virtual memory using paging,		
			25/03/23	3.4 Demand paging,		
			27/03/23	page fault handling.		
			28/03/23	REVISION		
			29/03/23	REVISION		

SL. No.	Month /No .of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No of periods available as per syllabus	No of periods available as per plan
	APRIL-2023(15)		03/04/23	4. DEVICE MANAGEMENT 4.1 Techniques for Device Management	15	15
			04/04/23	Dedicated, shared and virtual		
			05/04/23	4.2 Device allocation considerations I/O traffic control & I/O Schedule		
			06/04/23	I/O Device handlers		
			08/04/23	4.3 SPOOLING.		
			10/04/23	REVISION		
			11/04/23	5. DEAD LOCKS 5.1 Concept of deadlock.		
			12/04/23	5.2 System ModeCont...		
			13/04/23	System Mode		
			24/04/23	5.3 Dead Lock Detection Cont .		
			25/04/23	Dead Lock Detection		
			26/04/23	5.4 Resources allocation Graph cont..		
			27/04/23	Resources allocation Graph		
			28/04/23	5.5 Methods of Deadlock handling cont...		
			29/04/23	Methods of Deadlock handling		

SL. No.	Month /No .of academic days available for the subject	Chapter	DATE	TOPICS TO BE COVERED	No of periods available as per syllabus	No of periods available as per plan
	APRIL-2023(12)		01/05/23	5.6 Recovery &Prevention, Explain Bankers Algorithm & Safety Algorithm	12	12
			02/05/23	5.6 Recovery &Prevention, Explain Bankers Algorithm & Safety Algorithm		
			03/05/23	REVISION		
			04/05/23	**6. FILE MANAGEMENT** 6.1 File organization, Directory & file structure, sharing of files		
			05/05/23	6.2 File access methods, file systems, reliability		
			06/05/23	6.3 Allocation of disk space Cont..		
			08/05/23	.Allocation of disk space Complete.		
			09/05/23	6.4 File protection, secondary storage management		
			10/05/23	**7.0 SYSTEM PROGRAMMING** 7.1 Concept of system programming and show difference from Application Complier		
			11/05/23	7.2 Compiler , functions of compiler 7.3 Compare compiler and interpreter.		
			12/05/23	7.4 Seven phases of compiler, brief description of each phase.		
			13/05/23	REVISION		

Brief Summary of the Plan

Slno	Month	Units/Chapter To be Covered	Percentage of Coverage
1	FEB-23	Chapter-	
2	MAR-23	Chapter-	
3	APR-23	Chapter-	
4	MAY-23	Chapter-	

Signature of the Faculty

Date - 20/02/23

Signature of the Principal

Date:- 20/2/23