

GANDHI SCHOOL OF ENGINEERING BHABANDHA, BERHAMPUR SESSION PLAN (SUMMER-2025)

4TH SEMESTER, BRANCH-INFORMATION TECHNOLOGY

OPERATING SYSTEM (TH-1)

Name of the Faculty –ER.SONU SAHU

Topics to be taken					Actually Taken		
SL NO & CHAPTER	No. of Periods assigned by SCTE & VT	Details of the topics	PLANNING DATE	TOPIC NO.	Details of the topics	ACTUAL DATE	Remark s
1 INTRODUCTION	3	1. INTRODUCTION		1	1. INTRODUCTION	06-02-2025	
		1.1 Objectives and Explain functions of operating system.	06-02-2025 TO	1.1	1.1 Objectives and Explain functions of operating system.	06-02-2025	
		1.2 Evolution of Operating system	10-02-2025	1.2	1.2 Evolution of Operating system	07-02-2025	
		1.3 Structure of operating system.		1.3	1.3 Structure of operating system.	10-02-2025	
2 PROCESS MANAGEMENT		2. PROCESS MANAGEMENT		2	2. PROCESS MANAGEMENT INTRODUCTION	11-02-2025	
				2.1	2.1 Process concept, process control, interacting processes, inter process messages.	12-02-2025	
		2.1 Process concept, process control, interacting processes, inter process messages.			2.1 Process concept, process control, interacting processes, inter process messages.	13-02-2025	
	10	11-02-2025 Interacting processes, in	2.1 Process concept, process control, interacting processes, inter process messages.	14-02-2025			
		2.2 Implementation issues of Processes.	24-02-2025	2.2	2.2 Implementation issues of Processes.	17-02-2025	
		2.3 Process scheduling, job scheduling.		2.3	2.3 Process scheduling,	18-02-2025	
					job scheduling.	19-02-2025	
		2.4 Process synchronization, semaphore.		2.4	2.4 Process synchronization,	20-02-2025	
					semaphore. Types of scheduling.	21-02-2025	
		2.5 Principle of concurrency, types of scheduling.		2.5	2.5 Principle of concurrency, types of scheduling.	24-02-2025	

Topics to be taken					Actually Taken		
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		3 MEMORY MANAGEMENT		3	3 MEMORY MANAGEMENT INTRODUCTION	25-02-2025	
		3.1 Memory allocation Techniques		3.1	3.1 Memory allocation Techniques	27-02-2025	
3 MEMORY MANAGEMENT		Contiguous memory allocation	25-02-2025 TO 11-03-2025		3.1 Memory allocation Techniques	28-02-2025	
	10	图 Contiguous memory allocation			☑ Contiguous memory allocation☑ non contiguous memory allocation	03-03-2025 04-03-2025	
		② non contiguous memory allocation			Contiguous memory allocation & non contiguous memory allocation	06-03-2025	
		3.2 Swapping			3.2 Swapping	07-03-2025	
		3.3 Paging Segmentation, virtual memory using		3.3	3.3 Paging Segmentation, virtual memory	08-03-2025	
		paging		3.3	3.3 Paging Segmentation, virtual memory using paging	10-03-2025	
		3.4 Demand paging, page fault handling.		3.4	3.4 Demand paging, page fault handling.	11-03-2025	
	10	4 DEVICE MANAGEMENT	12-03-2025 TO 26-03-2025	4	4 DEVICE MANAGEMENT INTRODUCTION	12-03-2025	
4 DEVICE		4.1 Techniques for Device Management			4.1 Techniques for Device Management	17-03-2025	
		🛮 Dedicated,			② Dedicated,	18-03-2025	
		🛚 shared and		4.1	2 shared and	19-03-2025	
		🛮 virtual.			② virtual.	20-03-2025	
MANAGEMENT				4.2	Deadicated, Share and Virtual	21-03-2025	
IVIANAGEIVIENT		4.2 Device allocation considerations I/O traffic control & I/O Schedule, I/O Device handlers.			4.2 Device allocation considerations I/O traffic control	22-03-2025	
		control & 170 seriedule, 170 bevice nandiers.			& I/O Schedule,	24-03-2025	
					I/O Device handlers.	25-03-2025	
		4.3 SPOOLING.		4.3	4.3 SPOOLING.	26-03-2025	
5 Input – Output System	10	5 DEAD LOCKS	03-04-2025 TO 22-04-2025	5	5 DEAD LOCKS INTRODUCTION	03-04-2025	
		5.1 Concept of deadlock.		5.1	5.1 Concept of deadlock.	04-04-2025	
					Concept of deadlock	07-04-2025	
		5.2 System Model		5.2	5.2 System Model	08-04-2025	
		5.3 Dead Lock Detection		5.3	5.3 Dead Lock Detection	10-04-2025	
		5.4 Resources allocation Graph		5.4	5.4 Resources allocation Graph	11-04-2025	
		5.5 Methods of Deadlock handling		5.5	5.5 Methods of Deadlock handling	15-04-2025	
		F & Bassyory & Drayantian Evaluin Bankars			5.6 Recovery &Prevention,	17-04-2025	
		5.6 Recovery & Prevention, Explain Bankers		5.6	Explain Bankers Algorithm	21-04-2025	
		Algorithm & Safety Algorithm			& Safety Algorithm	22-04-2025	

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	10	6. FILE MANAGEMENT	24-04-2025 TO 06-05-2025	6	6. FILE MANAGEMENT INTRODUCTION	24-04-2025	
6 FILE MANAGEMENT		6.1 File organization, Directory & file structure, sharing of files		6.1	6.1 File organization, Directory & file structure, sharing of files	25-04-2025 28-04-2025 29-04-2025	
		6.2 File access methods, file systems, reliability		6.2	6.2 File access methods, file systems, reliability	30-04-2025 01-05-2025	
		6.3 Allocation of disk space		6.3	6.3 Allocation of disk space Allocation of disk space	02-05-2025 01-05-2025	
		6.4 File protection, secondary storage		6.4	6.4 File protection	03-05-2025	
		management.			,secondary storage management.	06-05-2025	
	7	7. SYSTEM PROGRAMMING	07-05-2025 TO 15-05-2025	7	7. SYSTEM PROGRAMMING INTRODUCTION	07-05-2025	
		7.1 Concept of system programming and show		7.1	7.1 Concept of system programming and	08-05-2025	
		difference from Application Complier:			show difference from Application Complier:	09-05-2025	
7 SYSTEM		7.2 Compiler , functions of compiler.7.3 Compare compiler and interpreter.7.4 Seven phases of compiler, brief description of each phase.		7.2	7.2 Compiler , functions of compiler.	10-05-2025	
PROGRAMMING				7.3	7.3 Compare compiler and interpreter.	13-05-2025	
				7.4	7.4 Seven phases of compiler,	14-05-2025	
		7.5 Flynn"s Classification		7.5	brief description of each phase. 7.5 Flynn"s Classification	15-05-2025	

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