

LESSON PLAN

Degree/Diploma/+2 Sc
(Theory/Pract/Lab/Work)

Semester 6th Sem

Branch

CSE CNS LAB

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Half Holiday Day

LESSON PLAN

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Semester	4th	Branch	CSE	DS
Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required	
15/2	1. Introduction	Objectives and Explain functions of Operating System	01	
16/2		Evolution of Operating System	01	
16/2		Structure of Operating System	01	
20/2	2. Process	Process Concept, Process Control	01	
21/2	Management	Interfacing Processes Inter Process Messages	01	
22/2		Implementation issues of Processes	01	
23/2		Process Scheduling Job Scheduling	01	
25/2		Process Synchronization Semaphore	01	
27/2		Principle of Concurrency	01	
28/2		Types of Scheduling	01	
1/3	3. Memory	Memory Allocation Techniques	01	
2/3	Mgt.	• Contiguous Memory Allocation	01	
4/3		• Non Contiguous Memory Allocation	01	
6/3		Swapping	01	
7/3		Paging	01	

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Semester 4th

Branch CSE

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
9/3		Segmentation	01
11/3		Virtual Memory Using Paging	01
13/3		Demand Paging	01
13/3		Page Fault handling	01
14/3	4.0 Device	Techniques for Device Management	01
15/3	Mgt.	• Dedicated	01
16/3		• Shared and • Virtual	01
18/3		Device Allocation considerations I/O traffic control	01
21/3		I/O Schedule	01
23/3		I/O Device handlers	01
25/3		Spooling	01
27/3		Revise all papers/topics	01
28/3	5.0 Deadlocks	Concept of Deadlock	01
29/3		System Model	01
4/4		DeadLock Detection	01

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Semester 4th Branch CSE

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
5/4		Resources Allocation Graph	01
11/4		Methods of Deadlock handling	01
15/4		Recovery & Prevention	01
18/4		Explain Bankers Algorithm	01
19/4		Safety Algorithm	01
22/4	6.0 FILE	File Organization, Directory & File Structure	01
26/4	Mgt.	Sharing of Files	01
29/4		File Access Methods	01
1/5		File Systems, Reliability	01
2/5		Allocation of disk space	01
3/5		File Protection	01
4/5		Secondary Storage Management	01
5/5	7.0 System	File Organization Concept of System Prog.	
6/5	Programming	Show Difference from Appl ⁿ Compiler	
7/5		Compiler	

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4th

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O.S. Lab
Laboratory 2023
4th

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Semester

Branch

Diploma

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
18.01.24	1.	Write a Shell Script to print the command line arguments	01
		in Reverse order	
25.01.24	2.	Write a Shell script to check whether the given number is Palindrome or not	01
01.2.24	3.	Write a Shell to sort the given array elements in ascending order using bubble sort	01
8.2.24	4.	Write a shell script to Perform sequential Search	01
15.2.24	5.	Write a Shell script to perform binary Search	01
22.2.24	6.	Write a shell script to accept any two files names and check their file Permissions	01
29.2.24	7.	Write a Shell script to illustrate the case-statement	01

Kalpataru Day

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Semester 6th

Branch CSE

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
15/2	1. possible attacks on computers	The need For Security	01
16/2		Security approach	01
17/2		Principles of Security	01
18/2		Types of Attacks	01
20/2	2. Crypto- graphy	Plain text & Cipher Text	01
21/2	concepts	Substitution Techniques	01
22/2		Transposition Techniques	01
23/2		Encryption & Decryption	01
24/2		Symmetric & Asymmetric key Cryptography	01
25/2	3. Symmetric & key algorithm	Symmetric key algorithm types	01
27/2	Asymmetric key algorithm	Overview of Symmetric Key Cryptography	01
28/2	Algorithms	Data encryption Standards	01
1/3		Over view of symmetric Key Cryptography	01
2/3		The RSA algorithm	01
3/3		Symmetric & asymmetric Key Cryptography	01

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Semester	6th	Branch	CSE
Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
4/3		Digital Signature	01
6/3		Digital Certificates	01
9/3	Digital Certificate & Public Key Infrastructure.	Private Key management	01
10/3		PKIX Model	01
11/3		Public Key Cryptography Standards	01
13/3	5. Internet Security protocols	Basic Concept	01
14/3		Secure Socket layer	01
15/3		Transport layer Security	01
16/3		Secure Hyper text transfer protocol (SHTTP)	01
17/3		Time Stamping protocol (TSP)	01
18/3		Secure electronic transaction (SET)	01
20/3	6. User authentication	Authentication basics	01
21/3		password	01
22/3		Authentication Tokens	01
23/3		Certificate based authentication.	01

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