Academic Lesson Plan of Summer 2025			
Department: CSE	Semester:4th	Name of the Teaching Faculty: GIRIJA PRASAD SWAIN	
Subject:	No. of days/per	Semester from:04/02/2025	
Operating System	week class	No. of weeks:15	
	allotted. 4p/week	Topics to be covered:	
WEEK	DAYS	TOPIC	
1st week	1st	Objectives and Structure of OS	
	2nd	Evolution of OS	
	3rd	Function of OS	
	4th	Process concept	
2nd week	1st	Process control,Interacting process	
	2nd	Inter process messages	
	3rd	Implimaintation issue of progress	
	4th	process sheduling	
	1st	Process synchronization	
2rd wook	2nd	Semaphore	
3rd week	3rd	Job scheduling	
	4th	Principal of concureency	
4th week	1st	Types of scheduling	
	2nd	Doubt clearing (ch1,ch2), Ques discussion	
	3rd	Memory allocation technique	
	4th	contiguous & non-contiguous memory allocation	
	1st	Swapping technique	
5th week	2nd	Paging technique	
	3rd .	segmentation	
	4th	Virtual memory using memory	
6th week	1st	Demand paging	
	2nd	Page fault handling	
	3rd	Page fault handling	
	. 4th	Introduction to techniques for device management	
	1st	Dedicated technique	
	2nd	Shared technique	
7th week	3rd	Virtual technique	
	4th	Device allocation consideration	
8th week	1st	I/O traffic controler	
	2nd	I/O schedule	
	3rd	I/O device handlers	
	4th	Spooling technique	
	1st	Introduction to deadlock	
- 1	2nd	System model	
9th WEEK	3rd	Deadlock detection	
	4th	Deadlock detection technique	
10th week	1st	Resource allocation graph	
	2nd	Method of deadlock handling	
	3rd	Recovery of deadlock handling	
	4th	Prevention of deadlock handling	
11th week	1st	Banker's algorithm	
	2nd	Safety algorithm	
	3rd	doubt clearing (ch3,ch4)	
	4th	Doubt clearing (ch5)	

12th week	1st	Introduction to file organization
	2nd	Directory & file structure
	3rd	Sharing of files technique
	4th	File acess techniques
	1st	File acess methods
13th week	2nd	File system
	3rd	Reliability, allocation of disk space
	4th	File protection
	1st	Secondary storage management
14th week	2nd	Introduction to system programming, compiler
	3rd	Function of compiler
	4th	difference between function & compiler
	1st	Seven phases of compiler
15th week	2nd	Seven phases of compiler
	3rd	Doubt clearing & discussion ch5 &ch6
	4th	Previous year question discussion

GIP. Swain 63/02/20 FACULTY

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