SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Descipline: CSE	Semester: 4th	Name of the Teaching Faculty: Tapaswini Raut
Subject: Operating system	No of Days/per week class allotted: 4	Semester from Date: 04/02/25 to Date: 17.05.25 No of Weeks: 16
Week	Class Day	Theory/Practical Topics
1st	1st	1. Introduction 1.1 Objectives and explain functions of OS
	2nd	1.2 Evolution of operating system
	3rd	1.3 Structure of operating system
	4th	2. Process Management 2.1 Process concept, process control,
	5th	
2nd	1st	Interacting process, Inter process message
	2nd	2.2 Implementation issues of processes
	3rd	continueing Implementation issues of processes
	4th	2.3 Process scheduleing
	5th	
3rd	1st	Job scheduleing
	2nd	2.4 Process synchronization
	3rd	semaphore
	4th	2.5 Principle of cuncurrency
	5th	
4th	1st	Types of scheduleing, Assignment 1
	2nd	Monthly Test 1
	3rd	3. Memory Management 3.1 Memory Allocation Techniques
	4th	Contiguous & noncontiguous memory location
	5th	
5th	1st	3.2 swapping
	2nd	3.3 paging
	3rd	3.4 segmentation
	4th	Virtual memory using paging
	5th	

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Subject:	No of Days/per week class allotted:	Semester from Date: to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	3.4 Demand Paging
	2nd	continuing Demand Paging
	3rd	Page fault handling
	4th	continuing Page fault handling
	5th	Quiz - 1, Assignment 2
2nd	1st	4. Device Management 4.1 Techniques for Device Management • Dedicated • Shared • Virtual
	2nd	
	3rd	4.2 Device allocation consideration I/O traffic control
	4th	I/O schedule
	5th	
3rd	1st	continuing I/O schedule
	2nd	I/O device handlers
	3rd	continuing I/O device handlers
	4th	Spooling
	5th	
4th	1st	continuing spooling,
	2nd	Assignment and Question answers discussion
	3rd	5. Deadlocks 5.1 concept of deadlock
	4th	5.2 System model
	5th	
5th	1st	5.3 Deadlock Detection
	2nd	continuing Deadlock Detection
	3rd	5.4 Resource allocation Graph
	4th	continuing Resource allocation Graph
	5th	

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Subject:	No of Days/per week class allotted:	Semester from Date: to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	5.5 Methods of Deadlock handling
	2nd	continuing Methods of Deadlock handling
	3rd	Recovery & Prevention, Bankers Algorithm
	4th	Safety Algorithm, Assignment 4
	5th	
2nd	1st	Monthly Test 2
	2nd	6. File Management 6.1 File organization, Directory
	3rd	File structure, sharing of files
	4th	6.2 File access methods
	5th	
3rd	1st	continuing file access methods
	2nd	continuing file access methods
	3rd	Allocation of disk space
	4th	6.4 File Protection
	5th	
4th	1st	continuing File protection
	2nd	secondary Storage Management
	3rd	secondary storage management
	4th	7. System Programming 7.1 concept of system programming
	5th	
5th	1st	show difference from Application compiler
	2nd	7.2 compiler, Function of compiler
	3rd	7.3 compare compiler & interpreter
	4th	7.4 seven phases of compiler
	5th	

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Descipline:	Semester:	Name of the Teaching Faculty:
Subject:	No of Days/per week class allotted:	Semester from Date: to Date: No of Weeks:
Week	Class Day	Theory/Practical Topics
1st	1st	continuing seven Phase of Compiler
	2nd	Quiz Test-2, question answer discussion
	3rd	monthy test-2, Assignment 5
	4th	
	5th	
2nd	1st	
	2nd	
	3rd	
	4th	
	5th	
3rd	1st	
	2nd	
	3rd	
	4th	
	5th	
4th	1st	
	2nd	
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	
	5th	

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