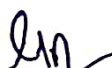


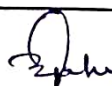
SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

Discipline: CSE	Semester: 3rd	Name of the Teaching Faculty: Manas Ranjan Ojha
Subject: Data Structure	No of Days/per week class allotted: 4	Semester from Date: 1.7.24 to Date: 18.11.24 No of Weeks: 15
Week	Class Day	Theory/Practical Topics
1st	1st	Explain Data, Information, data types
	2nd	Define data structure & Explain different operations
	3rd	Explain Abstract data types
	4th	Discuss Algorithm & its complexity Explain Time, space complexity
	5th	
2nd	1st	Explain Basic Terminology, storing strings
	2nd	State character Data Type
	3rd	Discuss string operations
	4th	Chap 8 Arrays Give introduction about Array
	5th	
3rd	1st	Discuss Linear arrays, representation of linear array in memory
	2nd	Explain traversing linear arrays, inserting and deleting elements
	3rd	Discuss multidimensional arrays representation of multidimensional array
	4th	row major order, column major order
	5th	
4th	1st	pointers
	2nd	explain sparse matrices
	3rd	Chap 9 Stack & Queue Give fundamental idea about stack & queue
	4th	Explain array representation of stack
	5th	
5th	1st	explain arithmetic expression
	2nd	Polish notation & conversion
	3rd	Discuss Application of stack, recursion
	4th	Discuss queues, circular queues
	5th	


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SYNERGY POLYTECHNIC, BBSR

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Subject: Data Structure	No of Days/per week class allotted: 4	Semester from Date: 1.7.24 to Date: 18.11.24
Week	Class Day	Theory/Practical Topics
6th	1st	containing circular queue & priority queue
	2nd	Chap 11 Linked List
	3rd	Give introduction & representation of linked list
	4th	Discuss traversing on a linked list
	5th	searching on a linked list
7th	1st	Discuss Garbage Collection
	2nd	explain insertion into a linked list
	3rd	Deletion from a linked list
	4th	Header linked list
	5th	
8th	1st	Chap 12 Tree
	2nd	Explain basic terminology of tree
	3rd	Discuss Binary Tree, representation of Binary Tree
	4th	Traversal,
	5th	Binary search tree
9th	1st	searching
	2nd	insertion on a binary search tree
	3rd	deletion on a binary search tree
	4th	containing
	5th	
10th	1st	Ch 1 Graphs
	2nd	Explain graph terminology
	3rd	Representation
	4th	Explain Adjacency Matrix
	5th	Path Matrix

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SYNERGY POLYTECHNIC, BBSR

The Lesson Plan

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Subject: Data Structure	No of Days/per week class allotted: 4	Semester from Date: 1.7.24 to Date: 18.11.24 No of Weeks: 15
Week	Class Day	Theory/Practical Topics
11th	1st	continuing
	2nd	continuing
	3rd	ch 8 sorting, searching, Merging Discuss Algorithm for Bubble sort
	4th	continuing
	5th	
12th	1st	Discuss algorithm for Quick sort
	2nd	continuing
	3rd	Merging
	4th	continuing
	5th	
13th	1st	Linear search
	2nd	continuing
	3rd	Binary search
	4th	continuing
	5th	
14th	1st	ch 9 File organization explain different types of File organization
	2nd	continuing
	3rd	Access method
	4th	continuing
	5th	
15th	1st	Introduction to Hashing, Hash Function
	2nd	collision resolution
	3rd	continuing, open addressing
	4th	continuing open addressing
	5th	

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