BHUBANANANDA ODISHA SCHOOL OF ENGINEERING, CUTTACK DEPARTMENT OF INFORMATION TECHNOLOGY LESSON PLAN

Discipline:	Semester: 3th		Name of the Teaching Faculty: D. Susmita
Subject: Data	No. Of Days/per week class allotted: 4	No. Of period	From Date01/07/2024 To Date: 08/11/2024
Structure	periods per week (Tue,Wed,Thurs,Fri)	available	No. Of Weeks: 19 weeks
WEEK	CLASS DAY		Topics to be covered
1st	02/07/2024	1	Interaction with Students. Reference Books
	03/07/2024	1	Syllabus Discussion
	04/07/2024	1	1.0 INTRODUCTION: 1.1 Explain Data, Information, data types
	05/07/2024	1	1.2 Define data structure & Explain different operations
2nd	09/07/2024	1	1.3 Explain Abstract data types 1.4 Discuss Algorithm & its complexity
	10/07/2024	1	1.5 Explain Time, space trade-off
	11/07/2024	1	2.0 STRING PROCESSING 2.1 Explain Basic Terminology, Storing Strings
	12/07/2024	1	2.2 State Character Data Type, 2.3 Discuss String Operations
3rd	16/07/2024	1	3.0 ARRAYS 3.1 Give Introduction about array, 3.2 Discuss Linear arrays,
	18/07/2024	1	3.2 Representation of linear array In memory
	19/07/2024	1	3.3 Explain traversing linear arrays, inserting & deleting elements
4th	23/07/2024	1	3.3 Explain traversing linear arrays, inserting & deleting elements
	24/07/2024	1	3.4 Discuss multidimensional arrays,
	25/07/2024	1	3.4 Representation of two dimensional arrays in memory (row major order & column major order), and pointers3.5 Explain sparse matrices.
	26/07/2024	1	4.0 STACKS & QUEUES 4.1 Give fundamental idea about Stacks and queues
5th	30/07/2024	1	4.1 Give fundamental idea about Stacks and queues
	31/07/2024	1	4.1 Give fundamental idea about Stacks and queues

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	01/08/2024		Assignment 1 cum Doubt Clearing	
	02/08/2024		Class Test 1	
6th	06/08/2024	1	425-11	
		1	4.2 Explain array representation of Stack	
	07/08/2024	1	4.3 Explain arithmetic expression	
	08/08/2024	1	4.4 Discuss application of stack, recursion	
		1	4.5 Discuss queues, circular queue, priority queues.	
	09/08/2024	1	5.0 LINKED LIST	
			5.1 Give Introduction about linked list	
7th	12/00/0		about linked list	
	13/08/2024		5.2 Explain representation of linked list in	
	14/08/2024		memory	
	16/08/2024		5.3 Discuss traversing a linked list, searching,	
	10/08/2024		5.4 Discuss garbage collection	
8th	20/08/2024		g- towerion	
	21/08/2024		5.5 Explain Insertion into a linked list,	
	22/08/2024		5.5 Deletion from a linked list, header linked l	
	22/08/2024		Assignment 2 cum Doubt Clearing	
	23/08/2024		Class Test 2	
	25/06/2024		6.0 TREE	
			6.1 Explain Basic terminology of Tree	
9th	27/08/2024			
	28/08/2024	1	6.2 Discuss Binary tree,	
	29/08/2024	1	6.2 Discuss Binary tree,	
	30/08/2024	1	6.2 Its representation and traversal	
		1	6.2 Its representation and traversal	
10th	03/09/2024			
	04/09/2024	1	6.2 Its representation and traversal	
	05/09/2024	1	0.2 Binary search tree, searching	
	06/09/2024	11	0.2 Binary search tree, searching	
	-5/55/2024	1	6.2 Binary search tree, searching	
11th	10/09/2024			
100000000000000000000000000000000000000		1	Internal Exam	
38, 38, 2	11/09/2024	1	Internal Exam	
	12/09/2024	1	6.3 Explain insertion & deletion in a binery	
	13/09/2024	1	trees. 6.3 Explain insertion & deletion in a binary search trees	

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12th	17/09/2024	1	7.0 CRADUS
12(11	17/03/2024	1	7.0 GRAPHS 7.1 Graph terminology & its representation
	18/09/2024	1	7.2 Explain Adjacency Matrix, Path Matrix
	19/09/2024	1	7.2 Explain Adjacency Matrix, Path Matrix
	20/09/2024	1	7.2 Explain Adjacency Matrix, Path Matrix
13th	24/09/2024	1	8.0 SORTING SEARCHING & MERGING 8.1 Discuss Algorithms of Bubble sort, Quick sort,
	25/09/2024	1	8.1 Discuss Algorithms of Bubble sort, Quick sort,
	26/09/2024	1	8.2 Merging
	27/09/2024	1	8.3 Linear searching, Binary searching.
14th	01/10/2024	1	8.3 Linear searching, Binary searching.
	03/10/2024	1	9.0 FILE ORGANIZATION
	04/10/2024	1	9.1 Discuss Different types of file organization 9.1 Discuss Different types of file organization
15th	07/10/2024 to	1	PUIA HOUDAY
15(1)	12/10/2024	1	PUJA HOLIDAY
16th	15/10/2024	1	9.1 Discuss their access method,
	17/10/2024	1	9.2 Introduction to Hashing, Hash function,
	18/10/2024	1	9.2 Collision resolution, open addressing.
17th	22/10/2024	1	Class Test 3
	23/10/2024	1	REVISION AND PERVIOUS YEAR QUESTION
	24/10/2024	1	REVISION AND PERVIOUS YEAR QUESTION
	25/10/2024	1	REVISION AND PERVIOUS YEAR QUESTION
18th	29/10/2024	1	REVISION AND PERVIOUS YEAR QUESTION
	30/10/2024	1	REVISION AND PERVIOUS YEAR QUESTION
	01/11/2024	1	REVISION AND PERVIOUS YEAR QUESTION
19th	05/11/2024	1	REVISION AND PERVIOUS YEAR QUESTI
2501	06/11/2024	1	DISCUSSION REVISION AND PERVIOUS YEAR QUESTI
	07/11/2024	1	DISCUSSION REVISION AND PERVIOUS YEAR QUESTI
			DISCUSSION REVISION AND PERVIOUS YEAR