

LESSON PLAN

Data Structures



BRANCH: 3RD SEM, CSE

PREPARED BY

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LECTURE	TOPICS TO BE COVERED	TEACHING MEHOD
1	UNIT 1 Introduction to Data Structures: Basic Terminology,	PPT
2	Classification of Data Structure	
3	Operations on Data Structure	PPT
4	Asymptotic and worst-case analysis of algorithms.	PPT
5	REVISION	PPT
6	UNIT 2 Linear Data Structures: Stacks-Introduction to Stacks	PPT
7	Array Representation of Stacks	CHALK & BOARD
8	Operations on a Stack	CHALK & BOARD
9	Applications of Stacks- Infix-to-Postfix Transformation	CHALK & BOARD
10	evaluating Postfix Expressions	CHALK & BOARD
11	PROGRAMMING	CHALK & BOARD
12	Queues: Introduction to Queues	CHALK & BOARD
13	Array Representation of Queues	CHALK & BOARD
14	Operations on a Queue	CHALK & BOARD
15	Types of Queues- DeQueue, Circular Queue	CHALK & BOARD
16	Applications of Queues-Round Robin Algorithm	CHALK & BOARD
17	PROGRAMMING	CHALK & BOARD
18	REVISION	CHALK & BOARD CHALK & BOARD
19	UNIT 3 Linked Lists: Singly Linked List	CHALK & BOARD
20	Representation in Memory, Operations on a Single Linked List,	CHALK & BOARD
21	Operations on a Single Linked List	CHALK & BOARD
22	Operations on a Single Linked List	CHALK & BOARD
23	Circular Linked Lists: definition, operations	CHALK & BOARD
24	Circular Linked Lists: definition, operations	CHALK & BOARD
25	Doubly Linked Lists: definition, operations	CHALK & BOARD

26	Doubly Linked Lists: definition, operations	CHALK & BOARD
27	Linked List Representation and Operations of Stack	CHALK & BOARD
28	Linked List Representation and Operations of Stack	CHALK & BOARD
29	Linked List Representation and Operations of Queue.	CHALK & BOARD
30	Linked List Representation and Operations of Queue	CHALK & BOARD
31	REVISION	CHALK & BOARD
32	UNIT 4	CHALK & BOARD
	Non-Linear Data Structures: Trees-Basic Terminologies	CHALK & BOARD
33	Definition and Concepts of Binary Trees	CHALK & BOARD
34	Representations of a Binary Tree using Arrays and Linked Lists	CHALK & BOARD
35	Operations on a Binary Tree-Insertion, Deletion	CHALK & BOARD
36	Binary Tree Traversals	CHALK & BOARD
37	Types of Binary Trees.	CHALK & BOARD
38	REVISION OF TREE DATASTRUCTURE	CHALK & BOARD
39	GRAPHS: Graph Terminologies,	CHALK & BOARD
40	Representation of Graphs- Set, Linked, Matrix	CHALK & BOARD
41	Graph Traversals	CHALK & BOARD
42	REVISION OF GRAPH DATA STRUCTURE	CHALK & BOARD
44	PREVIOUS YEAR QUESTIONS DISCUSSION	CHALK & BOARD
45	REVISION	CHALK & BOARD
		CHALK & BOARD


LECTURER


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