

LESSON PLAN

Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Remark
(1)	1.	Basic concepts of Data structures.	Black board	
(2)		Notations of time & space complexity	"	
(3)		Performance Analysis of algorithms.	"	
(4)		Iterative & Recursive Alg.	"	
(6)		Asymptotic notations (O , Ω , Θ , O , ω)	"	unit comp
(8)	2	Linear search, binary search. (Alg & Analysis)	"	
(9)		Hashing: Hash functions.	"	
(11)		collision Resolution techniques.	"	
(13)		Sorting: selection, Bubble.	"	
(15)		insertion, Quick, merge. Heap Sort.	"	unit comp
(16)	3	Single Linked List: comparison with arrays & introduction	"	
(18)		efficient operations: creation, Insertion.	"	
(20)		deletion, traversing, searching.	"	
(22)		Double & circular linked list creation, Insertion, deletion	"	
(24)		circular Linked List & its operations.	"	
(25)		Applications: polynomial expressions.	"	unit con
(27)	4.	Stacks; Definition & operations	"	
(30)		Applications of stacks: conversion & evaluation of exp.	"	
(32)		Queues & Types of Queue Simple Queue	"	
(35)		circular Queue & its Operations.	"	

*Black Board / LCD / OHP / Other Method

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Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Remarks
(35)		Implementation of Stack & Queue using Linked List	Black Board	Unit 4 comple
(40)	5	Trees: Basic terminology	Black Board	(1)
(43)		Binary tree Traversals.	Black Board	(2)
(45)		Binary search tree operations.	Black Board	(3)
(48)		Graph: Representation Basic terminologies &	Black Board	(4)
(50)		Traversal algorithms BFS, DFS	Black Board	(5)
(54)		Dijkstra's algorithm.	Black Board	Unit 5 comple
			Black Board	(6)
			Black Board	(7)
			Black Board	(8)
			Black Board	(9)
			Black Board	(10)
			Black Board	(11)
			Black Board	(12)
			Black Board	(13)
			Black Board	(14)
			Black Board	(15)
			Black Board	(16)
			Black Board	(17)
			Black Board	(18)
			Black Board	(19)
			Black Board	(20)

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