LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	2/9	Efficiency of algori-thms	1	CR		
2	4/9	A Priori Analaysis Asymptotic Notations		CR		
3	5/9	Time complexity of algorithm Using O notation		CR		
4	6/9	Polynomial vs Exponential Alg Avg, Best, and worst case		CR		
5	9/9	Complexities		CR		
6	17/10	Analyzing recursive Programs.		CR	BQ8	
7	18/10	Stack ADT, Stack model implementation of	2	CR		
8	21/10	Stacks		CR		
9	23/10	Applications of Stacks infix, prefix, and postfix		CR		
10	24/10	Queue ADT, Queue model		CR		
11	25/10	Array implementation of Ques,		CR		
12	28/10	Implementation of		CR	BQ8	

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13	30/10	Linked Lists.		CR		
14	31/10	Circular linked lists		CR		
15	1/11	Cursor implementation of		CR		
16	4/11	Linked lists.		CR		
17	6/11	Polynomial addition and		CR		
18	7/11	multiplication, Garbage		CR		
19	8/11	collection & compaction		CR	*(signature)*	
20	18/11	Selection sort, insertion	3	CR		
	—	sorting technique				
21	20/11	Bubble Sort, Shell sort		CR		
22	21/11	Radix sort, Quick sort		CR		
23	22/11	Merge sort, heap sort		CR		
24	25/11	bucket sorting, external		CR		
25	27/11	worestcase and average		CR		
		Lowerbound sorting using comparison			*(signature)*	
26	28/11	Basic Terminology	4	CR		
		Binary trees and Types				
27	29/11	Strict, complete, Full		CR		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
28	3/12	binary expression Tree		CR		
		Representation of binary Tree				
29	4/12	static and dynamic		CR		
		Traversals algorithms				
30	5/12	Recursive – Non-Recursive		CR		
31	6/12	Threaded binary tree		CR		
		Representation and application			BDW	
32	9/12	Binary search Tree	5	CR		
		operation in BST				
33	11/12	AVL tree basic operations		CR		
34	12/12	M-way tree, B-Tree		CR		
		Basic operations				
35	13/2	B+ Trees, Application		CR		
		Heap sort, Max and				
		Min heap.			BDW	
36	16/2	Set Implementation	6	CR		
		Basic operations on set				
37	18/12	Priority Queue		CR		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
38	19/12	Graphs. Directed		CR		
		Graphs. Shortest path				
39	20/12	Undirected graph		CR		
		Spanning Trees				
		Graph Traversals				
40	23/12	Hash Table representation		CR		
		Hash functions				
41	26/12	Collision resolution		CR		
		Separate chaining				
42	29/12	open addressing		CR		
43	30/12	Linear probing		CR		
44	1/1	Quadratic probing		CR		
45	2/1	Double hashing		CR		
46	3/1	Rehashing		CR		