

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
		<b>Dictionaries</b>	<b>I</b>			
5	25/8/14	Sets, Unions, Insertions	I	CR		
4	26/8/14	Dictionaries, Hash Tables	"	CR		
		open Hashing, Closed Hashing (Rehashing methods)	"	CR		
1	27/8/14	Hashing functions (Divisor Method, Multi-division Method)	"	CR		
6	28/8/14	Analysis of closed Hashing Result.	"	CR		
		Hash Tables Restructuring	"	"		
1	31/8/14	Skiplists, Analysis	"	CR		
		" Skiplists	"	"		
6	4/9/14	Revision & previous papers		"		
		<b>Balanced Trees</b>	<b>II</b>			
4	5/9/14	Def. of AVL (BT, BST)	"	CR		
5	8/9/14	BST creation, Insert, Deletion	"	CR		
4	9/9/14	Maxi. Height of an AVL Tree and Deletion	"	CR		
1	10/9/14	2-3 Trees Insertion	"	CR		
6	11/9/14	2-3 Trees Deletion	"	CR		
4		Exercises -		CR		
4	12/9/14	Review Previous papers		CR		

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		<b>Priority Queues</b>	<b>III</b>			
5	15/9/14	Binary Heaps	"	CR		
4	16/9/14	Insertion, deletion of minimum heap.	"	CR		
1	17/9/14	Creating Heap	"	CR		
4	24/9/14	Binomial Queue op	"	CR		
4	24/9/14	Binomial Amortized	"	CR		
6	25/9/14	Analysis	"	CR		
		Lazy Binomial Queue	"	CR		
4	26/9/14	Revisions & old papers.	"	CR		
		<b>Graphs</b>	<b>IV</b>			
1	5/10/14	Def. graphs, types of graphs.	"	CR		
6	9/10/14	operation on Graphs	"	CR		
		Vertex Insertion, deletion	"	CR		
		Find Vertex edge Add.	"	"		
		edge deletion.	"	"		
4	10/10/14	Graph Travels DFS	"	CR		
		BFS (Non Recursive)	"	CR		
1,2	11/10/14	Graph Storage Representation	"	CR		
		Adjacency matrix, Adjacency lists	"	"		
		Revision	"	"		

Mid-13-10-2014 — 18-10-2014 →



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		<b>Graph Algorithms V</b>				
5	20/10/14	Def Spanning Tree	"	CR		
		min. cost spanning Tree				
		Primo's Method (Alg)	"	CR		
4	21/10/14	Kruskal's Algorithm	"	CR		
1	22/10/14	Shortest path Algorithms	"	CR		
		Dijkstra's Algorithm	"	CR		
		All pairs shortest paths	"	CR		
4	24/10/14	Floyd's Algorithm	"	CR		
		Warshall's Algorithm	"	CR		
		Revision & old papers	"	CR		
		<b>Sorting Methods VI</b>				
5	27/10/14	Order Statistics	"	CR		
		lower Bound on complexity	"	CR		
		for Sorting Methods				
4	28/10/14	lower Bound on worst case complexity	"	CR		
		lower Bound on Average case complexity	"	CR		
1	29/10/14	Heap sort	"	CR		
6	30/10/14	Quick sort	"	CR		
4	31/10/14					
5	3/11/14	Radix sort	"	CR		
1	5/11/14	Merge sort	"	CR		
6	6/11/14	"	"	CR		

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		<b>Pattern Matching and Tries</b>	<b><u>VII</u></b>			
5	12/11/14	Pattern Matching Algorithm	"	CR	"	
4	14/11/14	the Boyer-Moore Alg	"	CR		
1	14/11/14	Knuth Morris Pratt algorithm	"	CR		
6	15/11/14	Tries: definitions and concepts of	"	CR		
4	16/11/14	digital search tree	"	CR		
5	17/11/14	Binary Tree	"	CR		
4	18/11/14	Patricia,	"	CR		
1	19/11/14	Multi-way tree.	"	CR		
5	20/11/14	Review	"	CR		
		<b>File Structures</b>	<b><u>VIII</u></b>			
5	24/11/14	File processing operations	"	CR/PPT		
4	25/11/14	(open, close, Reading and Writing)	"	CR		
1	26/11/14	Special Characters for files.	"	CR		
6	27/11/14	file structures concepts	"	CR		
4	28/11/14	Field & record org.	"	CR		
5	1/12/14	Management fixed-length,	"	CR		
4	2/12/14	variable-length, fixed-block	"	CR		
1	3/12/14	Review	"	CR		
5	8/12/14	Previous Questions	"	CR		
5	12/12/14	Review	"	CR		