

**L.D.COLLEGE OF ENGINEERING, AHMEDABAD
INFO TECH DEPARTMENT**

**LECTURE PLANNING
TERM: June-October 2018**

SUBJECT: Data Structure (2130702) (B.E. – III)
Term start date : 18/6/2018

NO. OF LECTURES/WEEK:-2 (MON- TUE)

FACULTY: Prof JAHNAVI VITHALPURA

No.	Topic	Planned Date	Actual Date
1. Sorting & Searching:			
1.	Sorting – Bubble Sort	18/6	
2.	Selection Sort	19/6	
3.	Quick Sort	25/6	
4.	Merge Sort Searching	26/6	
5.	Design Problme/QUIZ	2/7	
2. Hashing And File Structures			
6.	Hashing: The symbol table	3/7	
7.	Hashing Functions, Collision-Resolution Techniques	9/7	
8.	File Structure: Concepts of fields, records and files	10/7	
9.	Sequential, Indexed and Relative/Random File Organization	16/7	
10.	Indexing structure for index files, hashing for direct files	17/7	
11.	Multi-Key file organization and access methods	23/7 24/7	
12.	Design Problme/QUIZ	30/7	
3. Non Linear Data Structure			
13.	Tree-Definitions and Concepts, Representation of binary tree	31/7 6/8	
14.	Binary tree traversal (Inorder, postorder, preorder)	7/8	
15.	Threaded binary tree	13/8	
16.	Binary search trees	14/8	
17.	Conversion of General Trees To Binary Trees	20/8	
18.	Applications Of Trees,	21/8	
19.	Some balanced tree mechanism, eg. AVL trees, 2-3 trees	27/8 2/8	
20.	Height Balanced, Weight Balance,	4/9	
21.	Graph-Matrix Representation Of Graphs	10/9	
22.	Elementary Graph operations,(Breadth First Search, Depth First Search,	11/9 17/9	

23.	Spanning Trees, Shortest path,	18/9 24/9	
24.	Minimal spanning tree)	25/9	
25.	Design ProblemE Revision/GTU PAPER SOLVINB	1/10 8/10	
26.	Quiz	9/10	