

**L.D.COLLEGE OF ENGINEERING, AHMEDABAD**  
**INFORMATION TECHNOLOGY DEPARTMENT**  
**LECTURE PLANNING**  
**TERM:18/06/2018 to 17/10/2018**

**SUBJECT: Data Structures (2130702 (B.E. – III))**  
**NO. OF LECTURES/WEEK:-2(A Division)**

**FACULTY: Prof.V.B.Thakkar**

Sr	Topics & Chapters	Proposed Date	Actual Date
	<b>II. Linear Data Structure:</b>		
1.	Array: Representation of arrays	21-6-2018	
2.	Applications of arrays, sparse matrix and its representation	22-6-2018	
3.	Stack: Stack-Definitions & Concepts, Operations on Stacks	28-6-2018 29-6-2018	
4.	Applications of Stacks, Polish Expression, Reverse Polish Expression	5-7-2018 6-7-2018 12-7-2018	
5.	Recursion, Tower of Hanoi	13-7-2018	
6.	Queue: Representation Of Queue, Operations On Queue	19-7-2018 20-7-2018	
7.	Circular Queue, Priority Queue, Array representation of Priority Queue	26-7-2018 27-7-2018 2-8-2018	
8.	Double Ended Queue, Applications of Queue	3-8-2018	
	Examples	9-8-2018	
	NPTEL video Lecture	10-8-2018	
9.	Linked List: Singly Linked List insertion at begin and at end	16-8-2018 17-8-2018	
10.	Singly Linked List insertion in between	23-8-2018 24-8-2018	
11.	Singly Linked List deletion	30-8-2018	
12.	Doubly Linked list	31-8-2018	
13.	Linked implementation of Stack and Queue	6-9-2018 7-9-2018	
14.	Circular linked list , Applications of linked list	13-9-2018	
	Examples	14-9-2018	
	<b>V. Sorting &amp; Searching</b>		
15.	Sorting – Bubble Sort,	20-9-2018	
16.	Selection Sort,	21-9-2018	
17.	Quick Sort,	27-9-2018	
18.	Merge Sort	28-9-2018	
19.	Searching – Sequential Search , Binary Search	4-10-2018	
20.	Examples	5-10-2018	
*	Revision and Doubt Solving	11-10-2018 12-10-2018	

**Sign of HOD**