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(B Division)   **FACULTY: Prof. Madhuri J. Patel**

Sr	Topics & Chapters	Proposed Date	Actual Date
1.	**I. Introduction to Data Structure**		
2.	Data Management concepts, Data types – primitive and non-primitive,	19-06-2018	
3.	Performance Analysis and Measurement (Time and space analysis of algorithms-Average, best and worst case analysis),	21-06-2018	
4.	Types of Data Structures- Linear & Non Linear Data Structures.	26-06-2018	
5.	Problem Solving and Revision	28-6-2018	
6.	GATE Example Solving	03-07-2018	
	II. Linear Data Structure:	05-07-2018	
7.	Array: Representation of arrays	10-07-2018	
8.	Applications of arrays, sparse matrix and its representation	17-07-2018	
9.	Stack: Stack-Definitions & Concepts, Operations on Stacks	19-07-2018	
10.	Applications of Stacks, Polish Expression, Reverse Polish Expression	31-07-2018	
11.	Recursion, Tower of Hanoi	02-08-2018	
12.	Queue: Representation Of Queue, Operations On Queue	07-08-2018	
13.	Circular Queue, Priority Queue, Array representation of Priority Queue	09-08-2018	
14.	Double Ended Queue, Applications of Queue	14-08-2018	
15.	Examples	16-08-2018	
16.	NPTEL video Lecture	21-08-2018	
17.	Linked List: Singly Linked List insertion at begin and at end	30-08-2018	
18.	Singly Linked List insertion in between	06-09-2018	
19.	Singly Linked List deletion	13-09-2018	
20.	Doubly Linked list	18-09-2018	
21.	Linked implementation of Stack and Queue	25-09-2018	
22.	Circular linked list , Applications of linked list	27-09-2018	
23.	Problem Solving and Revision	02-10-2018	
24.	GATE Example Solving	02-10-2018	
	V. Sorting & Searching		
25.	Sorting – Bubble Sort,	04-10-2018	
26.	Selection Sort,	09-10-2018	
27.	Quick Sort,	11-10-2018	

Sign of HOD