## LESSON PLAN

Name of the Institute:  Department:  Semester/Division/Branch:  Subject Name with code:		C. V. Raman Polytechnic					
		Computer Science & Engineering  3 <sup>RD</sup> Sem/CSE  Data Structure(TH-2)					
						60	
				Total No. of Class (Required):			
Faculty Nar	ne:	SAMBHU PRASAD PANDA					
Class No.		f the Topic/Chapter to be taught	Remarks				
1	Introduction to Data struct	ture					
2	Explain data,information,d different opertions	ata types.Define datastructure and explain					
3	Explain Abstract data types.						
4	Discuss Algorithm & its complexity.Explain time,space tradeoff						
5	String processing: Explain strings	String processing: Explain basic terminology, Storing					
6	State character data type						
7	Discuss string operations						
3		Arrays:Introduction about array					
9		Discuss linear arrays, representation of linear array inmemory					
10	Explain traversing linear	Explain traversing linear arrays, inserting and deletingelements					
11	Discuss multidimensional arrays						
12	Representation of 2D arr major order) pointers	Representation of 2D arrays in memory(row majororder and comumn					
13	Explain pointers						
14	Explain sparse matrices						

15	Stacks and queues: Fundamental idea about stacksand queues		
16	Explain array representation of stack	9 .	
17	Explain arithmetic expression		
18	Polish notation & conversion		
19	Discuss application of stack		
20	Recursion		
21	Discuss quesues		
22	Circular queues and priority queues		
23	Linked list: Give introduction about linked list		
24	Explain represention of linked list in memory		
. 25	Discuss traversing a linked list		
26	Searching		
27	Discuss garbage collection		
28	Insertion into a linked list		
29	Deletion from a linked list		
30	Header linked list		
31	Tree:Expalin basic terminolgy of tree		
32	Discuss binary tree		-
33	Binary tree representation		
34	Traversal of binary tree		
35	Binary serach tree		
36	Searching		
37	Insertion in a binary search tree		
38	Deletion in a binary serach trees		
39	Graphs: Explain graph terminology		
40	Represention of graph		
41	Representaion of graph		

42	Explain adjacency matrix
43	Explain path matrix
44	Explain path matrix
45	Sorting, searching and merging: Discuss algorithm for bubble sort
46	Bubble sort
47	Algorithm for quick sort
48	Quick sort
49	Merging
50	Merging
2	
51	Linear searching
52	Binary searching
53	File organization:Discuss different types of file organization and their access method
54	File organization and access method
55	Introduction to hashing
56	Hash function
57	Hash function
58	Collision resolution
59	Collision resolution
60	Open addressing

Signature of the Faculty

Signature of the H.O.D