LESSON PLAN

Name of the	he Institute:	C. V. Raman Polytechnic					
Department: Semester/Division/Branch: Subject Name with code:		Computer Science & Engineering 2 nd sem/CSE Data Structure(TH-2)					
				Total No. o	of Class (Required):	60	
				Faculty Name:		Santoshinee Mohapatra	
Class No.	Brief description o	f the Topic/Chapter to be taught	Remarks				
1	Introduction to Data struct	roduction to Data structure					
2	Explain data, information, data types. Define datastructure and explain different opertions						
3	Explain Abstract data types.						
4	Discuss Algorithm & its complexity. Explain time, space tradeoff						
5	String processing: Explain basic terminology, storing strings						
6	State character data type						
7	Discuss string operations						
8	Arrays:Introduction about a	аггау					
9	Discuss linear arrays, repres	sentation of linear array inmemory					
10	Explain traversing linear arrays, inserting and deletingelements						
11	Discuss multidimensional arrays						
12	Representation of 2D arrays major order) pointers	s in memory(row majororder and comumn					
13	Explain pointers						
14	Explain sparse matrices						
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15	Stacks and queues: Fundamental idea about stacks and queues	
16	Explain array representation of stack	
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	Unked 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	1 50 50
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	
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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	
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	12.
56	Hash function	
57	Hash function	7
58	Collision resolution	H31
59	Collision resolution	
60	Open addressing	E TEST

Signature of the Faculty

Signature of the H.O.D