

**KONGU ENGINEERING COLLEGE, PERUNDURAI - 638 052**  
**SCHOOL OF COMMUNICATION AND COMPUTER SCIENCES**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**LECTURE SCHEDULE**  
**ODDSEMESTER (2016-2017)**

Name : Dr.S.V.Kogilavani  
Subject: 14CST31 DATA STRUCTURES

Designation: AP(Sr.G)  
Class: II CSE C

S. No	Prop. date	Day	Hour	Topics to be covered	Actual Date	Actual Hour	Remarks
1	04.07.16	Mon	3	Overview and Relevance of the Subject			
<b>Unit I &amp; II - LISTS, STACKS &amp; QUEUES</b>							
2	05.07.16	Tue	1	Data Structures, Abstract Data Types (ADT)			
3	08.07.16	Fri	4	List ADT and its array implementation			
4	11.07.16	Mon	3	Stack ADT and its array implementation			
5	12.07.16	Tue	1	Applications of Stacks: Conversion of Expressions			
6	14.07.16	Thur	6	Applications of Stacks: Evaluation of Expressions			
7	15.07.16	Fri	4	The Queue ADT and its array implementation			
8	18.07.16	Mon	3	Circular Queue			
9	19.07.16	Tue	1	Applications of Queues			
10	21.07.16	Thur	6	Linked List			
11	22.07.16	Fri	4	Linked List			
12	25.07.16	Mon	3	Linked List implementation of stack			
13	26.07.16	Tue	1	Linked List implementation of queue			
14	28.07.16	Thur	6	Doubly Linked List			
15	29.07.16	Fri	4	Doubly Linked List			
16	01.08.16	Mon	3	Circular Linked List			
17	04.08.16	Thur	6	Applications of Linked Lists			
18	05.08.16	Fri	4	Applications of Linked Lists			
<b>CA Test - I (08.08.16 to 10.08.16)</b>							
	11.08.16	Thur	6	Paper Distribution and Question Paper discussion			
<b>Unit III - TREES</b>							
19	12.08.16	Fri	4	Trees-Preliminaries			
20	16.08.16	Tue	1	Binary Trees			
21	23.08.16	Tue	1	The Search Tree ADT: Binary Search Trees			
22	29.08.16	Mon	3	AVL Trees			
23	30.08.16	Tue	1	AVL Trees			
24	01.09.16	Thur	6	Tree Traversals			
25	02.09.16	Fri	4	Priority Queues (Heaps)			
26	06.09.16	Tue	1	Binary Heap			
27	09.09.16	Fri	4	d Heaps			
<b>Unit IV - SORTING AND HASHING</b>							
28	12.09.16	Mon	3	Sorting-Preliminaries			
29	16.09.16	Fri	4	Insertion Sort, Bubble Sort			
30	19.09.16	Mon	3	Heapsort			
31	20.09.16	Tue	1	Mergesort, Quicksort			
32	23.09.16	Fri	4	External Sorting			
<b>CA Test - II (26.09.16 to 28.09.16)</b>							
	29.09.16	Thur	6	Paper Distribution and Question Paper discussion			
33	30.09.16	Fri	4	Hashing: General Idea, Hash Function			
34	03.10.16	Mon	3	Separate Chaining			
35	04.10.16	Tue	1	Open Addressing			
36	06.10.16	Thur	6	Linear Probing			



Unit V - GRAPHS									
37	07.10.16	Fri	4	Graphs - Definitions, Topological Sort					
38	13.10.16	Thur	6	Shortest-Path Algorithms					
39	14.10.16	Fri	4	All Pair Shortest Path- Algorithm					
40	17.10.16	Mon	3	Dijkstra's Algorithm					
41	18.10.16	Tue	1	Minimum Spanning Tree					
42	20.10.16	Thur	6	Prim's Algorithm					
43	21.10.16	Fri	4	Kruskal's Algorithm					
44	24.10.16	Mon	3	Depth First Search, Breadth First Search					
45	25.10.16	Tue	1	Undirected Graphs, Biconnectivity					
	27.10.16	Thur	6	*Running Time Calculations of Algorithms					
	28.10.16	Fri	4	Revision					
	31.10.16	Mon	3	Revision					
				CA Test - III (01.11.16 to 03.11.16)					
				*Content beyond syllabus					

#### **TEXT BOOK**

1. Weiss M. A., "Data Structures and Algorithm Analysis in C", 3rd Edition, Pearson Education Asia, New Delhi, 2006.

#### **REFERENCE BOOKS**

1. Aho A.V., Hopcroft, J.E. and Ullman J.D., "Data Structures and Algorithms", Pearson Education, New Delhi, 2003.
2. Langsam Y.M., Augenstein J. and Tenenbaum, A. M., "Data Structures using C", Pearson Education Asia, New Delhi, 2004.
3. Baase Sara and Van Gelder Allen, "Computer Algorithms: Introduction to Design and Analysis", Pearson Education Asia, New Delhi, 2003.

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