

St. Ann's College of Engineering & Technology: Chirala
Department of COMPUTER SCIENCE & ENGINEERING
LECTURE SCHEDULE

SUBJECT: DS through C++

ACADEMIC YEAR: 2018-19

NAME: G. Prasuna

YEAR & SEM/SECTION: II -I CSE-B

No. of Lectures per week: 5 + 1*(Tut)

S. NO	DATE	UNIT	TOPICS
1	11-Jun-18	UNIT 1	Introduction to Class
2	12-Jun-18		Data Abstraction & Encapsulation
3	13-Jun-18		Declaring Class Objects and Invoking Member Functions
4	18-Jun-18		Special Class Operations
5	19-Jun-18		ADTs and C++ Classes
6	20-Jun-18		The Array as an Abstract Data Type
7	22-Jun-18		The Polynomial ADT - Its Representation & Addition
8	23-Jun-18		Sparse Matrices, Introduction - Its Representation
9	23-Jun-18		Tutorial
10	25-Jun-18		Transposing a Matrix
11	26-Jun-18		Matrix Multiplication
12	27-Jun-18		Representation of Arrays
13	29-Jun-18		Unit - I Test
14	30-Jun-18	UNIT 2	Templates in C++
15	30-Jun-18		Tutorial
16	2-Jul-18		Template Functions
17	3-Jul-18		Using Templates to Represent Container Classes
18	4-Jul-18		The Stack Abstract Data Type
19	6-Jul-18		Stack Operations
20	7-Jul-18		The Queue Abstract Data Type
21	7-Jul-18		Tutorial
22	9-Jul-18		Queue Operations
23	10-Jul-18		Subtyping in C++
24	11-Jul-18		Inheritance in C++
25	13-Jul-18		Evaluation of Expressions, Postfix Notation
26	14-Jul-18		Infix to Postfix
27	14-Jul-18		Tutorial
28	16-Jul-18		Unit - II Test
29	17-Jul-18	UNIT 3	SLL and Chains, Representing Chains in C++
30	18-Jul-18		Defining a Node in C++, Designing a Chain Class in C++
31	20-Jul-18		Pointer Manipulation in C++
32	21-Jul-18		Chain Manipulation Operations, The Template Class Chain, Implementing Chains with Templates
33	21-Jul-18		Tutorial
34	23-Jul-18		Chain Iterators - Chain Operations - Reusing a Class
35	24-Jul-18		CLL, Available Space Lists
36	25-Jul-18		Linked Stacks and Queues
37	27-Jul-18		Polynomials, Polynomial Representation - Adding Polynomials - Circular List Representation of Polynomials
38	28-Jul-18		Equivalence Classes, Sparse Matrices, Sparse Matrix Representation - Sparse Matrix Input - Deleting a Sparse Matrix

39	28-Jul-18		Tutorial
40	30-Jul-18		DoublyLinkedLists
41	31-Jul-18		GeneralizedLists, Representation ofGeneralized Lists
42	1-Aug-18		RecursiveAlgorithms forLists-Reference Counts, Shared and RecursiveLists
43	3-Aug-18		TreesIntroduction, Terminology, Representation
44	4-Aug-18		Binary Trees, TheADT, Properties of Binary Trees
45	4-Aug-18	I MID	Tutorial
46	6-Aug-18		Revision
47	7-Aug-18		Revision
48	8-Aug-18		Revision
49	10-Aug-18		Revision
50	11-Aug-18		Revision
51	11-Aug-18		Tutorial
52	13-Aug-18	UNIT IV	Binary Tree Representations
53	14-Aug-18		Binary Tree Traversal and Tree Iterators
54	17-Aug-18		In-order, Preorderand Post-order Traversals
55	18-Aug-18		ThreadedBinary Trees, Threads
56	18-Aug-18		Tutorial
57	20-Aug-18		In-orderTraversalofa Threaded Binary Tree
58	21-Aug-18		InsertingaNodeintoa Threaded Binary Tree
59	24-Aug-18		Heaps, Priority Queues, DefinitionofaMaxHeap
60	25-Aug-18		InsertionintoaMaxHeap, Deletionfroma MaxHeap
61	25-Aug-18		Tutorial
62	27-Aug-18		Binary SearchTreesDefinition, SearchingaBST
63	28-Aug-18		InsertionintoaBinarySearchTree
64	29-Aug-18		DeletionfromaBST
65	31-Aug-18		HeightofBinary Search Tree
66	4-Sep-18		Unit – IV Test
67	5-Sep-18	UNIT V	TheGraph ADT, Introduction, Definition
68	7-Sep-18		Graph Representation, Elementary Graph Operation
69	8-Sep-18		DepthFirst Search
70	8-Sep-18		Tutorial
71	10-Sep-18		Breadth First Search
72	11-Sep-18		ConnectedComponents, Spanning Trees
73	12-Sep-18		BiconnectedComponents
74	15-Sep-18		MinimumCostSpanning Trees, Kruskal’sAlgorithm
75	15-Sep-18		Tutorial
76	17-Sep-18		Prim’s Algorithm, Sollin’ s Algorithm
77	18-Sep-18		Single Source/All Destination: Nonnegative EdgeCost
78	19-Sep-18		Single Source/AllDestination: General Weights
79	22-Sep-18		All-Pairs Shortest Path
80	22-Sep-18		Tutorial
81	24-Sep-18		TransitiveClosure
82	25-Sep-18		Unit – V Test
83	26-Sep-18		Insertion Sort
84	28-Sep-18	Quick Sort	

85	29-Sep-18	UNIT VI	MergeSort Merging, IterativeMergeSort
86	29-Sep-18		Tutorial
87	1-Oct-18		RecursiveMergeSort
88	3-Oct-18		Heap Sort
89	5-Oct-18		Revision
90	6-Oct-18		Revision
91	6-Oct-18	II MID	Tutorial
92	8-Oct-18		Revision
93	9-Oct-18		Revision
94	10-Oct-18		Revision
95	12-Oct-18		Revision
96	13-Oct-18		Revision

Faculty Member

HOD