LAB SCHEDULE PLAN

urse & Branch : ADSAA & CBS Semester : III

me of the culty Member : MNVL NARAYANA Department : IT

me of the Lab Paper : Advanced Data structures and Algorithm Analysis Lab Code : 23CB3L01

No.	Experiment / Exercise Title	Proposed No. of Sessions
1.	Construct an AVL tree for a given set of elements which are stored in a file. And implement insert, Delete operations on the Constructed tree. write Contents of tree into a new file using inorder.	01
2.	Construct B-tree of an order 5 with a set of 100 random elements stored in an array. Implement Searching, insertion and Deletion operation	01
3.	Construct Min and Max Heap using arrays delete any element and display the Content of Heap	01
4.	Implement BFT, DFT for a given graph when graph is represented by i) Adjacency matrix ii) Adjacency list.	01
5.	write a Program for finding the bi Connected Components in a given graph.	01
6.	Implement Quick Sort and Merge sort and observe the execution time for various input sizes (Average, worst and Best Case)	01
7.	Compare the Performance of Single Source Shortest Paths using Greedy method when the graph is represented by adjacency matrix, adjacency lists.	01
8.	Implement Job sequence with deadlines using Greedy Strategy.	01
9.	write a Program to solve 0/1 Knapsack Problem using dynamic Programming.	01
10.	Implement N-Queen Problem using Back tracking	01
11.	using Back tracking Strategy to solve 0/1 Knapsack Problem	01
12.	Implement Travelling Sales Person Problem using Branch and Bound.	01
	Total :	12

Faculty Member HOD Principal