Vishnu Institute of Technology (Autonomous) :: Bhimavaram
Department of Computer Science and Engineering

ADS&AA Internal Lab

Class – II CSE B and C

1. Construct an AVL tree for a given set of elements which are stored in a file. And implement insert and delete operation on the constructed tree. Write contents of tree into a new file using in-order.
2. Construct Min Heap using arrays, delete any element and display the content of the Heap
3. Construct Max Heap using arrays, delete any element and display the content of the Heap
4. *Implement BFT for a given graph using Adjacency Matrix representation*
5. *Implement BFT for a given graph using Adjacency List Representation*
6. *Implement DFT for a given graph using Adjacency Matrix representation*
7. *Implement BFT for a given graph using Adjacency List Representation*
8. *Implement Quick sort.*
9. *Implement Merge sort.*
10. Implement Fractional Knapsack problem using greedy strategy.
11. Implement Job Sequencing with Deadlines problems using greedy strategy.
12. Implement Dijkstra's algorithm for solving single source shortest path problem.
13. Design a program to solve 0/1 knapsack problem using Dynamic Programming.
14. Implement Edit Distance algorithm to find the minimum edit sequence cost.
15. Implement N-Queens problem using backtracking.
16. Implement Graph-Coloring problem using backtracking