



Vellore – 632014, Tamil Nadu, India  
**SCHOOL OF COMPUTER SCIENCE AND ENGINEERING**  
**FALL SEMESTER 2022-2023**  
**LAB ASSESSMENT -III**

**SLOT: B2/TB2**

Course Code	:	BCSE202P
Course Name	:	DATA STRUCTURES AND ALGORITHMS LAB

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1. Illustrate the Various Tree Traversal techniques. The assessment should include the following things .

- a. Algorithm
- b. Source Code
- c. Input and Output

2. Illustrate the following Operations on Binary Search Tree

- a. Construction of Binary Search Tree**
- b. Insertion of new node in the existing tree**
- c. Search a node**
- d. Finding minimum & maximum**
- e. Deletion node in the existing tree(All 3 Cases)**
- f. Finding the k<sup>th</sup> Minimum element**

The assessment should include the following things

- i. Algorithm
- ii. Source Code
- iii. Input and Output

3. Illustrate the following Operations on AVL Tree

- a. Insertion**
- b. Deletion**
- c. Rotation Operation in both and insertion and deletion**

The assessment should include the following things

- i. Algorithm
- ii. Source Code
- iii. Input and Output