

Alliance College of Engineering and Design Bachelor of Technology [Batch: 2022-26]

Semester –IV

Mid Semester Examinations, April - 2024

Subject Code & Title: 4 CS 1006 Data Structures and Algorithms Lab

Date: 18.04.2024 Time: 2 Hrs. Max. Marks: 50

Exp. No	Experiments
1	 a) Write a program to sort an array of integers in ascending order using Bubble sort b) Write a program to implement Hash table using C++
2	a) Write a program to sort an array of integers in ascending order using Insertion sort.b) Implement the Binary Tree. Produce its pre-order, in-order and post-order Traversals.
3	a) Write a program to sort an array of integers in ascending order using Quick sortb) Implement AVL tree using C++ classes also insert a node in AVL tree
4	a) Write a program to sort an array of integers in ascending order using Merge sortb) Implement DFS using C++
5	a) Implement AVL tree using C++ classes also delete a node in AVL tree b) Implement BFS using C++