

THADOMAL SHAHANI ENGINEERING COLLEGE

Academic Year 2024 - 25

List of Experiments

Subject: Analysis of Algorithm Lab

Branch: Computer Engineering

Subject Code: CSL401

Semester: IV

Sr. No.	Experiments
1.	Implement a) Selection Sort b) Insertion Sort
2.	Divide and Conquer Approach – Implement a) Merge Sort b) Quick Sort
3.	Greedy Method Approach – Implement Minimum Cost Spanning Tree using Kruskal’s Algorithm OR Prim’s Algorithm
4.	Greedy Method Approach – Implement Dijkstra algorithm.
5.	Dynamic Programming Approach – Implement Longest Common Subsequence Problem.
6.	Dynamic Programming Approach – Implement 0/1 Knapsack problem.
7.	Dynamic Programming Approach – Implement All pair shortest path algorithm (Floyd Warshall algorithm)
8.	Backtracking Approach – Implement N – Queen Problem
9.	Backtracking Approach – Implement Sum of Subset Problem
10.	String Matching Algorithms – Implement the Rabin Karp Algorithm OR the Knuth-Morris-Pratt Algorithm

Khalid Ansari
Subject In-Charge