

**THADOMAL SHAHANI ENGINEERING COLLEGE**  
**Academic Year 2024 - 25**

**Subject: Analysis of Algorithm Lab**  
**Branch: Computer Engineering**

**Subject Code: CSL401**  
**Semester: IV**

**Assignment 2**

Note: Students have to study one of the topics from the following list as assigned by lab faculty.

<b>Sr. No.</b>	<b>Topics</b>
1.	Optimal Storage on Tapes (Greedy algorithm)
2.	Strassen's Matrix Multiplication (Divide and Conquer algorithm)
3.	Multiplication of Long Integers (Divide and Conquer algorithm)
4.	Matrix Chain Multiplication (Dynamic Programming)
5.	Construct Convex Hull using Divide and Conquer
6.	Approximation algorithm - Traveling salesman problem with triangle inequality
7.	Finding closest pair of points using Divide and Conquer algorithm
8.	All pair shortest path - Johnson's algorithm for sparse graphs
9.	Amortized analysis and its types
10.	Ford Fulkerson Algorithm for maximum flow.