DESIGN & ANALYSIS OF ALGORITHMS LAB

Prerequisites:

- 1. Computer programming
- 2. Data Structures

Objectives:

To implement Different algorithms by using a Programming language.

Course Details:

List of Sample Programs:

Experiment No. 1	Write a program to implement linear search and binary search.
Experiment No. 2	Write a program to implement merge sort and quick sort.
Experiment No. 3	Write a program to implement heap sort and operations on a binary search tree.
Experiment No. 4	Write a program to implement matrix chain multiplication problem.
Experiment No. 5	Write a program to implement longest common subsequence problem.
Experiment No. 6	Write a program to implement activity selection problem, fractional knapsack problem and 0/1 knapsack problem.
Experiment No. 7	Write a program to implement Huffman coding.
Experiment No. 8	Write a program to implement Prim's and Kruskal's algorithm.
Experiment No. 9	Write a program to implement Bellman-Ford algorithm, Dijkstra algorithm, Floyd-Warshall algorithm.
Experiment No. 10	Write a program to implement N-Queens' problem, Rabin-Karp string matching algorithm.