21CSC204J – Design and Analysis of Algorithms

LIST OF EXPERIMENTS

	Experiments	Program Implementation (10 Marks)											
S.No.		Aim & Algo (1)	Basic Solution (2)	Basic Solution (2)	Modularity (2.5)	Readability (2.5)	Validation (2)	Scalability (1)	Time complexity analysis (3)	I/O and Result (1)	Viva (5)	Total (20)	Experiment mark (1)
1	a. Insertion sortb. Bubble sort												
2	a. Linear searchb. Binary search												
3	Quick sort												
4	Merge sort												
5	Divide and conquer problems a. Strassen's Matrix multiplication												
6	Divide and conquer problems a. Finding Maximum and Minimum in an array b. Convex Hull problem												
7	Huffman coding using greedy programming												
8	Knapsack using greedy programming												

9	Finding the longest common subsequence from a sequence					
10	N queen's problem					
11	Travelling salesman problem using a. Dynamic programming b. Greedy programming					
12	String matching algorithm – Rabin Karp algorithm					