

ANALYSIS AND DESIGN OF ALGORITHMS

Subject Code: 3150703 Semester: V A.Y: 2022-2023

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Name:		
Enrollment Number:		

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1		Implementation and Time analysis of sorting algorithms. Bubble sort, Selection sort, Insertion sort, Merge sort and Quicksort			
2		Implementation and Time analysis of linear and binary search algorithm			
3		Implementation of max-heap sort algorithm			
4		Implementation and Time analysis of factorial program using iterative and recursive method			
5		Implementation of a knapsack problem using dynamic programming			
6		Implementation of chain matrix multiplication using dynamic programming			
7		Implementation of making a change problem using dynamic programming			
8		Implementation of a knapsack problem using greedy algorithm			
9		Implementation of Graph and Searching (DFS and BFS).			
10		Implement prim's algorithm			
11		Implement kruskal's algorithm			
12		Implement LCS problem.			
13		Virtual Lab Practical: Kunth – Morris – Partt – string matching algorithm			
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