List of Practicals and Lab Plan

Sub: ANALYSIS OF ALGORITHM

Year (2023-24)

Sr. N O	Aim	CO Mapping	Weekly Plan
1.	1.1 Implementation of Selection sort. *1.2 Implementation of Insertion sort. *	CSL401.1, CSL401.2, CSL401.3	Third Week Fourth Week
2.	Divide and Conquer Approach 2.1 Finding Minimum and Maximum 2.2 Merge sort 2.3 Quick sort 2.4 Binary search	CSL401.1, CSL401.2, CSL401.3	Fifth Week Sixth Week
3.	 Greedy Method Approach 3.1 Single source shortest path- Dijkstra 3.2 Fractional Knapsack problem 3.3 Job sequencing with deadlines 3.4 Minimum cost spanning trees-Kruskal and Prim's algorithm 	CSL401.1, CSL401.2, CSL401.3	Eighth Week NinethWeek
4.	 Dynamic Programming Approach 4.1 Single source shortest path- Bellman Ford 4.2 All pair shortest path- Floyd Warshall 4.3 0/1 knapsack 4.4 Travelling salesperson problem 4.5 Longest common subsequence 	CSL401.1, CSL401.2, CSL401.3	TenthWeek, Eleventh Week

5.	Backtracking and Branch and bound		Twelth Week
	5.1 N-queen problem	CSL401.2, CSL401.3	
	5.2 Sum of subsets		
	5.3 Graph coloring		
6.	String Matching Algorithms		Thirteenth Week
	6.1 The Naïve string-matching Algorithms	CSL401.2, CSL401.3	
	6.2 The Rabin Karp algorithm		
	6.3 The Knuth-Morris-Pratt algorithm		