

Syllabus		
Expt No	Contents	Mapped CO
1.	Develop and implement an algorithm using Divide and Conquer strategy for a given set of problems.	CO1,CO2,CO3,CO4,CO5
2.	Make use of greedy method to implement a solution for a given problem.	CO1,CO2,CO3,CO4,CO5
3.	Develop and implement an efficient solution using Dynamic Programming.	CO1,CO2,CO3,CO4,CO5
4.	Use Backtracking design technique to implement a solution for a given problem.	CO1,CO2,CO3,CO4,CO5
5.	Develop and implement an algorithm using Branch and Bound technique for solving a given problem.	CO1,CO2,CO3,CO4,CO5
6.	Case Study-1: Apply the most appropriate design technique to develop and implement an efficient solution for a given problem.	CO1,CO2,CO3,CO4,CO5
7.	Case Study-2: Develop and implement an optimal solution for a given problem by applying a suitable design technique.	CO1,CO2,CO3,CO4,CO5
8.	Case Study-1	CO1,CO2,CO3,CO4,CO5
9.	Case Study-2	CO1,CO2,CO3,CO4,CO5
10.	Case Study-3	CO1,CO2,CO3,CO4,CO5
Learning Resources		
Text Books		
1. Introduction to the Design & Analysis of Algorithms, Anany Levitin, Third Edition, 2011, Pearson Education. 2. Data Structures and Algorithm Analysis in C, Mark Allen Weiss, 2002, Pearson. 3. Algorithm Design Techniques, Narasimha Karumanchi, CareerMonk Publications, 2018.		
e-Resources & other digital material		
1. https://www.cs.usfca.edu/~galles/visualization/Algorithms.html 2. https://littlesvr.ca/dsa-html5-animations/sorting.php 3. https://www.youtube.com/watch?v=AfYqN3fGapc		