

Syllabus		
Expt No	Contents	Mapped CO
1.	Develop and implement an algorithm using Divide and Conquer strategy for a given set of problems.	CO1-CO5
2.	Make use of Greedy method to implement a solution for a given problem.	CO1-CO5
3.	Develop and implement an efficient solution using Dynamic Programming.	CO1-CO5
4.	Use Backtracking design technique to implement a solution for a given problem.	CO1-CO5
5.	Develop and implement an algorithm using Branch and Bound technique for solving a given problem.	CO1-CO5
6.	Case Study-1: Apply the most appropriate design technique to develop and implement an efficient solution for a given problem.	CO1-CO5
7.	Case Study-2: Develop and implement an optimal solution for a given problem by applying a suitable design technique.	CO1-CO5

Learning Resources	
Text Books	
<ol style="list-style-type: none"> 1. <i>Introduction to the Design & Analysis of Algorithms</i>, Anany Levitin, Third Edition, 2011, Pearson Education. 2. <i>Data Structures and Algorithm Analysis in C</i>, Mark Allen Weiss, 2002, Pearson. 3. <i>Algorithm Design Techniques</i>, Narasimha Karumanchi, CareerMonk Publications, 2018. 	
e- Resources & other digital material	
<ol style="list-style-type: none"> 1. https://www.cs.usfca.edu/~galles/visualization/Algorithms.html 2. http://littlesvr.ca/dsa-html5-animations/sorting.php 3. https://www.youtube.com/watch?v=AfYqN3fGapc 	