



COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty: **Dr. K RAJENDRA PRASAD** Department: **Computer Science and Engineering (Cyber Security)**
 Regulation: **IARE - R20** Batch: **2021-2025**
 Course Name: **Design and Analysis of Algorithms** Course Code: **ACSC13**
 Semester: **IV** Target Value: **60% (1.8)**

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Find the (worst case, randomized, amortized) running time and space complexity of given algorithms using techniques such as recurrences and properties of probability	2.30	2.10	2.3	Attained
CO2 Apply divide and conquer algorithms for solving sorting, searching and matrix multiplication	3.00	2.10	2.8	Attained
CO3 Make Use of appropriate tree traversal techniques for finding shortest path	3.00	2.00	2.8	Attained
CO4 Compare Identify suitable problem solving techniques for a given problem and finding optimized solutions using Greedy and Dynamic Programming techniques	1.60	2.10	1.7	Not Attained
CO5 Apply greedy algorithm Utilize backtracking and branch and bound techniques to deal with traceable and in-traceable problems	3.00	2.10	2.8	Attained
CO6 Apply Describe the classes P, NP, NP-Hard, NP- complete for solving deterministic and non deterministic problems	2.30	2.00	2.2	Attained

Action Taken Report: (To be filled by the concerned faculty / course coordinator)

CO4: Need to illustrate greedy and dynamic programming with more example problems for finding optimized solutions. We need to conduct more tutorial classes to concentrate on the topics of greedy and dynamic programming techniques.

Course Coordinator

Mentor

Head of the Department

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