



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad -500 043

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### ATTAINMENT OF COURSE OUTCOMES (COS) – ACTION PLAN

Name of the Faculty	Dr.K Suvarchala	Department	CSE
Regulations	UG20	Batch	2020-2024
Course Name	Design and Analysis of Algorithms	Course Code	ACSC13
Semester	IV	Target Value	70% (2.1 on 3 Scale)

#### Attainment of COs:

Course Outcomes		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	3	2.2	2.8	Target attained
CO2	Apply divide and conquer algorithms for solving sorting, searching and matrix multiplication	2.3	2.2	2.3	Target attained
CO3	Make Use of appropriate tree traversal techniques for finding shortest path	3	2.2	2.8	Target attained
CO4	Compare Identify suitable problem solving techniques for a given problem and finding optimized solutions using Greedy and Dynamic Programming techniques	1.6	2.2	1.7	Target not attained
CO5	Apply greedy algorithm Utilize backtracking and branch and bound techniques to deal with traceable and in-traceable problems	2.3	2.2	2.3	Target attained
CO6	Apply Describe the classes P, NP, NP-Hard, NP- complete for solving deterministic and non deterministic problems	2	2.2	2	Target not attained

#### Action taken report:

CO4: Real time applications on Dynamic programming and Greedy strategy will be given as Lab exercise to design optimal solution.

CO6:A seminar will be organized on “ Role of Non deterministic problems solution on various Engineering areas” by Academic or Industrial Experts

Course Coordinator

HOD