



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

COMPUTER SCIENCE AND ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Ms. ALA HARIKA	Department:	Computer Science and Engineering
Regulation:	IARE - R18	Batch:	2019-2023
Course Name:	DESIGN AND ANALYSIS OF ALGORITHMS	Course Code:	AITB05
Semester:	IV	Target Value:	70% (2.1)

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.	3.00	2.20	2.8	Attained
CO2 Apply divide and conquer algorithms for solving sorting, searching and matrix multiplication.	2.30	2.20	2.3	Attained
CO3 Make Use of appropriate tree traversal techniques for finding shortest path.	2.30	2.20	2.3	Attained
CO4 Identify suitable problem solving techniques for a given problem and finding optimized solutions using Greedy and Dynamic Programming techniques	0.90	2.20	1.2	Not Attained
CO5 Utilize backtracking and branch and bound techniques to deal with traceable and in-traceable problems.	0.70	2.20	1	Not Attained
CO6 Describe the classes P, NP, NP-Hard, NP-complete for solving deterministic and non deterministic problems.	0.70	2.20	1	Not Attained

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

CO4: Application problems which need optimization solution will be given as exercise to make student understand how to use Dynamic programming and Greedy Techniques in getting solutions to such problems

CO5: Game Designing problems will be discussed as case studies to enhance algorithm design skills of student using branch and bound, Backtracking

CO6: Engineering applications having deterministic and/or nondeterministic solutions will be discussed during tutorial sessions to make students understand different classes of problems PP, NP, NPcomplete, NP hard.


Course Coordinator


Mentor


Head of the Department