INFORMATION TECHNOLOGY

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**DR. M PURUSHOTHAM REDDY**	Department:	**Information Technology**
Regulation:	**IARE - R18**	Batch:	**2019-2023**
Course Name:	**DESIGN AND ANALYSIS OF ALGORITHMS**	Course Code:	**AITB05**
Semester:	**IV**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct attaiment	Indirect attaiment	Overall attaiment	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.	0.90	2.30	1.2	Not Attained
CO2	Apply divide and conquer algorithms for solving sorting, searching and matrix multiplication.	0.70	2.30	1	Not Attained
CO3	Make Use of appropriate tree traversal techniques for finding shortest path.	0.00	2.20	0.4	Not Attained
CO4	Identify suitable problem solving techniques for a given problem and finding optimized solutions using Greedy and Dynamic Programming techniques	0.60	2.20	0.9	Not Attained
CO5	Utilize backtracking and branch and bound techniques to deal with traceable and in-traceable problems.	0.60	2.20	0.9	Not Attained
CO6	Describe the classes P, NP, NP-Hard, NP-complete for solving deterministic and non deterministic problems.	0.60	2.20	0.9	Not Attained

Action Taken:

CO1: Need to concentrate on algorithms to find worst case time and space complexity of given algorithms.

CO2: Need to discuss divide and conquer algorithms for solving sorting, searching and matrix multiplication with examples.

CO3: Need to practice more number of tree traversal techniques for finding shortest path.

CO4: Need to concentrate more on finding optimized solutions using Greedy and Dynamic Programming techniques.

CO5: Need more practice on backtracking and branch and bound techniques to deal with traceable and in-traceable problems.

CO6: Need to discuss P, NP, NP-Hard, NP-complete for solving deterministic and non deterministic problems with more examples.

Course Coordinator

Mentor

Head of the Department