INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr. V MAHIDHAR REDDY**	Department:	**Mechanical Engineering**
Regulation:	**IARE - BT23**	Batch:	2023-2027
Course Name:	**Additive Manufacturing Technology**	Course Code:	**AMED24**
Semester:	**V**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain the principles, evolution, and classifications of Additive Manufacturing (AM), comparing it with conventional CNC machining, including the need, advantages, disadvantages, and applications of AM.	3.00	2.50	2.9	Attained
CO2	Apply the concepts of CAD model preparation for Additive Manufacturing, including part orientation, support generation, STL conversion, slicing, and toolpath generation for effective AM process execution.	3.00	2.50	2.9	Attained
CO3	Describe various Additive Manufacturing machines, systems, and post-processing methods, including powder and wire feeding, process chambers, and safety features, ensuring awareness of machine setup and property enhancement techniques.	2.60	2.50	2.6	Attained
CO4	Analyze and differentiate solid-based and liquid-based AM systems, including Fused Deposition Modeling (FDM), Laminated Object Manufacturing, and Stereolithography (SLA) concerning principles, processes, advantages, applications, and associated challenges	3.00	2.50	2.9	Attained
CO5	Explain the principles, evolution, and classifications of Additive Manufacturing (AM), comparing it with conventional CNC machining, including the need, advantages, disadvantages, and applications of AM.	3.00	0.00	2.4	Attained
CO6	Explain the principles, evolution, and classifications of Additive Manufacturing (AM), comparing it with conventional CNC machining, including the need, advantages, disadvantages, and applications of AM.	2.60	0.00	2.1	Attained

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

Course Coordinator

Mentor

Head of the Department