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

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr. D GOVARDHAN**	Department:	**Aeronautical Engineering**
Regulation:	**IARE - UG20**	Batch:	**2022-2026**
Course Name:	**Heat and Mass Transfer**	Course Code:	**AAEC17**
Semester:	**V**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Make use of the basic concepts of Steady, unsteady and periodic heat transfer mechanisms and boundary conditions for solving the problems with and without extended surfaces.	1.30	2.00	1.4	Not Attained
CO2	Utilize concepts of free and forced convection and the boundary layer for solving the problems having internal or external flows.	0.30	2.00	0.6	Not Attained
CO3	Explain the concept of phase change heat transfer to classify the problems involving boiling and condensation phenomena.	0.90	2.00	1.1	Not Attained
CO4	Solve the problems on heat exchangers by understanding the concepts of LMTD and NTU methods.	1.60	2.00	1.7	Not Attained
CO5	Apply the laws of radiation heat transfer for solving the problems on radiation networks.	0.90	2.00	1.1	Not Attained
CO6	Summarize the concepts and laws of mass transfer to classify the mass transfer problems.	0.90	2.00	1.1	Not Attained

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

CO1: Periodic heat transfer concepts with boundary conditions and applications to problems with and without extended surfaces are taught.

CO2: students learned about free and forced convection, boundary layers, and practiced solving simple problems on heat transfer in internal and external flows.

CO3: Additional materials and digital content and videos are provided

CO4: students practiced solving heat exchanger problems using the concepts of Log Mean Temperature Difference (LMTD) and Number of Transfer Units (NTU) methods.

CO5: Learned to apply the laws of radiation heat transfer to solve problems involving radiation networks between surfaces.

CO6: Additional materials and digital content and videos are provided

Course Coordinator

Mentor

Head of the Department

Head of the Department
Aeronautical Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500 043