



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. K CHINA APPARAO	Department:	Mechanical Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Heat Transfer	Course Code:	AMEC29
Semester:	VI	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Recall the basic concepts of heat transfer mechanisms and general heat conduction equation in Cartesian, Cylindrical and Spherical Coordinate System for various measures of heat transfer rate.	3.00	2.00	2.8	Attained
CO2 Solve problems involving steady state heat conduction with and without heat generation in simple geometries.	2.70	2.00	2.6	Attained
CO3 Make use of the concept of Boundary layer theory for the derivation of empirical relations related to the characteristics of Boundary layer.	3.00	2.00	2.8	Attained
CO4 Utilize the principles associated with convective heat transfer to formulate and solve the heat transfer coefficients for various cross section areas	2.10	2.00	2.1	Attained
CO5 Explain the physical mechanisms involved in radiation heat transfer, boiling and condensation to give various correlations applied to heat exchangers, boilers, heat engines, etc.	2.70	2.00	2.6	Attained
CO6 Analyze LMTD and NTU techniques for tackling real time problems with thermal analysis, simulation (mathematical model) and cost optimization of heat exchangers	2.70	2.00	2.6	Attained

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


Course Coordinator


Mentor


Head of the Department

Head of the Department
Mechanical Engineering
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