



# 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 - BT23	Batch:	2023-2027
Course Name:	Thermodynamics and Heat Transfer	Course Code:	AAED02
Semester:	III	Target Value:	60% (1.8)

#### Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Apply the concepts of longitudinal and circumferential stresses induced in cylinders for the safe design under inside and outside pressure.	1.20	1.90	1.3	Not Attained
CO2	Make use of heat to work conversion and thermodynamic direction laws involved in heat engines and heat pumps for deriving their efficiency and coefficient of performance.	1.20	1.90	1.3	Not Attained
CO3	Utilize thermodynamic laws and entropy to describe the properties of pure substances and mixtures of perfect gases for examining the unavailability in any given system.	1.20	1.90	1.3	Not Attained
CO4	Choose the properties of refrigerants and practicing of psychrometric charts for solving the complex problems in refrigeration and air conditioning.	0.00	1.90	0.4	Not Attained
CO5	Illustrate the working principles of air standard cycles and its performance characteristics for recognizing the suitable engines in aeronautical and automobile applications.	1.20	1.90	1.3	Not Attained
CO6	Summarize the basics of heat transfer, working principle of heat exchangers for relating their applications in aerospace engineering.	1.20	1.90	1.3	Not Attained

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

CO1: Provided additional content on concepts of longitudinal and circumferential stresses in cylinders

CO2: Digital content and videos are provided for heat engines and heat pumps for deriving their efficiency and coefficient of performance.

CO3: Additional data is given for examining the thermodynamic laws and entropy

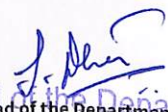
CO4: Guided with data to solve complex problems in refrigeration and air conditioning.

CO5: Digital content and videos are provided for recognizing the suitable engines in aeronautical and automobile applications.

CO6: Digital content and videos are provided for relating their applications in aerospace engineering.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Aeronautical Engineering  
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