



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:	Aircraft Propulsion and Turbomachinery	Course Code:	AAED07
Semester:	IV	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Compare the operating principles of various gas turbine engines and their components for selecting the suitable engine as per the mission requirements.	1.20	1.90	1.3	Not Attained
CO2	Utilize the thrust equation and engine cycle analysis for achieving the required performance.	1.20	1.90	1.3	Not Attained
CO3	Apply the knowledge of flow through various inlets, and nozzles under various operating conditions for selecting the suitable inlets and nozzle as per the mission requirement	1.20	1.90	1.3	Not Attained
CO4	Analyse the different types of combustion chambers for identifying the design variables affecting their performance	1.20	1.90	1.3	Not Attained
CO5	Summarize the operating principles of various compressors, turbines for their suitable selection.	1.20	1.90	1.3	Not Attained
CO6	Make use of the performance characteristics and efficiencies of different compressors and turbines for identifying a suitable combination	1.20	1.90	1.3	Not Attained

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

CO1: Conducted additional concept-oriented lectures on turbojet, turbofan, turboprop, and turboshaft engines.

CO2: Organized remedial sessions focusing on thrust equations and basic engine performance parameters.

CO3: Organized remedial sessions focusing on thrust equations and basic engine performance parameters.

CO4: Reinforced theoretical concepts through detailed lectures on can, annular, and can-annular combustion chambers.

CO5:

- Conducted revision classes on axial and centrifugal compressors and impulse and reaction turbines.

CO6: Explained matching of compressors and turbines using performance maps and efficiency plots.

Course Coordinator

Mentor

Head of the Department

Head of the Department
Aeronautical Engineering
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