



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. MARUTHUPANDIYAN K	Department:	Aeronautical Engineering
Regulation:	IARE - R18	Batch:	2018-2022
Course Name:	High Speed Aerodynamics	Course Code:	AAEB15
Semester:	V	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Recall the basic concepts in aero-thermodynamic and fluid mechanics for describing various flow phenomenon	3.00	2.50	2.9	Attained
CO2 Explain the basic concepts of gas dynamics for determining how compressibility affects the global and local nature of flow	0.90	2.30	1.2	Not Attained
CO3 Demonstrate the wave formation in the supersonic flow field for determining the nature of shock and expansion wave	0.90	2.50	1.2	Not Attained
CO4 Construct the equations of change in pressure, density and temperature for determining the nature of compression and expansion waves.	0.60	2.40	1	Not Attained
CO5 Illustrate the wave formation on wedge shaped and concave corners for solving complex problems in supersonic vehicles.	3.00	2.40	2.9	Attained
CO6 Develop the fundamental equation for one-dimensional and quasi one-dimensional flow of compressible ideal gas.	3.00	2.40	2.9	Attained

Action taken report:

CO2:

Digital content and videos are given in classes for a better understanding of concept.

CO3:

Extra inputs are given to enhance the knowledge.

CO4:

Additional reading materials are to be provided.


Course Coordinator


Mentor


Head of the Department

Head of the Department
Aeronautical Engineering
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