



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	<b>Dr. Maruthupandiyam K</b>	Department:	<b>Aeronautical Engineering</b>
Regulation:	<b>IARE - R16</b>	Batch:	<b>2016 - 2020</b>
Course Name:	<b>High Speed Aerodynamics</b>	Course Code:	<b>AAE008</b>
Semester:	<b>V</b>	Target Value:	<b>65% (1.8)</b>

#### Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO 1	Utilize the basic concepts of gas dynamics for determining how compressibility affects the global and local nature of flow	0.6	2.2	0.9	Attainment target is not reached
CO 2	Construct the equations of change in pressure, density and Temperature for determining the nature of compression and expansion waves.	0.3	2.2	0.7	Attainment target is not reached
CO 3	Develop the fundamental equation for one-dimensional and quasi one-dimensional flow of compressible ideal gas.	1.0	2.2	1.2	Attainment target is not reached
CO 4	Examine the steady isentropic flow, flow with friction and flow with heat transfer for solving problems in flow through one-dimensional passage.	0.9	2.1	1.1	Attainment target is not reached
CO 5	Analyze the airfoils at subsonic, transonic and supersonic flight conditions using the perturbed flow theory assumption for solving compressible flow over finite wing.	0.6	2.2	0.9	Attainment target is not reached
CO 6	Apply the various optical flow visualization techniques used for capturing compressible flow fields.	0.9	2.1	1.1	Attainment target is not reached

#### Action taken report:

CO 1: Digital content and assignments have to be increased.

CO 2: Remedial classes have been conducted.

CO 3: Remedial classes have been conducted.

CO 4: Digital content and videos given in classes for better understanding of concept.

CO 5: Application oriented problems may be given.

CO 6: Real time application may be better for attainment.

  
Course Coordinator

  
Mentor

Head of the Department  
Aeronautical Engineering  
INSTITUTE OF AERONAUTICAL ENGINEERING  
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**HOD**