



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AEROSPACE ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. ATHOTA RATHAN	Department:	Aerospace Engineering
Regulation:	IARE - MT23	Batch:	2023-2025
Course Name:	CFD for Aerospace Applications	Course Code:	BAED05
Semester:	I	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Apply the flux approach, flux vector splitting, upwind reconstruction- evolution methods for solving the compressible flow problems using Euler's equations.	3.00	2.30	2.9	Attained
CO2	Make use of the explicit, implicit, time split methods and approximate factorization schemes for obtaining the stabilized numerical solution of subsonic and supersonic nozzle flows.	3.00	2.30	2.9	Attained
CO3	Develop the boundary layer transformation equations for steady external flows on airfoil, wings and aircraft using finite difference method.	3.00	2.00	2.8	Attained
CO4	Analyze the structured, unstructured grids and dummy cells using physical boundary conditions for attaining the accurate results of fluid flow problems.	2.20	2.50	2.3	Attained
CO5	Identify the characteristic lines and compatibility equations for designing the supersonic nozzle having shock free and isentropic flow.	2.20	2.50	2.3	Attained
CO6	Utilize the effects of compressibility and viscosity on thin airfoil for establishing the numerical solution in aerodynamic problems.	2.20	2.40	2.2	Attained

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


Course Coordinator


Mentor


Head of the Department

Head of the Department
Aeronautical Engineering
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