



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of Faculty:	Dr.Bodavula Aslesha	Department:	Aerospace Engineering
Regulation:	PG-21	Batch:	2021-2023
Course Name:	Advanced Computational Aerodynamics	Course Code:	BAEC05
Semester:	Ist Semester	Target Value:	1.8

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO 1 Apply the flux approach, flux vector splitting, upwind reconstruction- evolution methods for solving the compressible flow problems using Euler's equations.	0.6	2.4	1.0	Not Attained
CO 2 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	0.3	2.6	0.8	Not Attained
CO 3 Develop the boundary layer transformation equations for steady external flows on airfoil, wings and aircraft using finite difference method.	0.9	2.5	1.2	Not Attained
CO 4 Analyze the structured, unstructured grids and dummy cells using physical boundary conditions for attaining the accurate results of fluid flow problems.	0.9	2.6	1.2	Not Attained
CO 5 Identify the characteristic lines and compatibility equations for designing the supersonic nozzle having shock free and isentropic flow	0.9	2.3	1.2	Not Attained
CO 6 Utilize the effects of compressibility and viscosity on thin airfoil for establishing the numerical solution in aerodynamic problems	0.6	2.5	1.0	Not Attained

Action taken report(To be filled by the concerned faculty/ course coordinator):

- CO 1: Digital content will be given for better understanding
- CO 2: Real time problems will be discussed for more clarity
- CO 3: Application oriented problems may be given
- CO 4: Remedial classes may be conducted
- CO 5: Real time problem may be discussed
- CO 6: Practical oriented problems may be discussed

Aslesha
Course Coordinator

Aslesha
Mentor

Aslesha
HOD-AE
Head of the Department
Aeronautical Engineering
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