INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of Faculty:	Ms. D Anitha	Department:	Aerospace Engineering
Regulation:	R-18	Batch:	2019-2021
Course Name:	Advanced Computational Aerodynamics	Course Code:	BAEB05
Semester:	I 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.	2.3	2.9	2.4	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	3	2.8	3	Attained
CO 3	Develop the boundary layer transformation equations for steady external flows on airfoil, wings and aircraft using finite difference method.	2.3	2.8	2.4	Attained
CO 4	Analyze the structured, unstructured grids and dummy cells using physical boundary conditions for attaining the accurate results of fluid flow problems.	3	2.8	3	Attained
CO 5	Identify the characteristic lines and compatibility equations for designing the supersonic nozzle having shock free and isentropic flow	3	2.8	3	Attained
CO 6	Utilize the effects of compressibility and viscosity on thin airfoil for establishing the numerical solution in aerodynamic problems	3		2.4	Attained

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

Course Coordinator

Mentor

HOD

Head of the Department
Aeronautical Engineering
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