



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. BINOY KRISHNA GIRI	Department:	Aeronautical Engineering
Regulation:	IARE - BT23	Batch:	2024-2028
Course Name:	Differential Equations and Vector Calculus	Course Code:	AHSD08
Semester:	II	Target Value:	60% (1.8)

#### Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Utilize the methods of differential equations for solving the orthogonal trajectories and Newton's law of cooling	1.40	2.50	1.6	Not Attained
CO2	Solve the higher order linear differential equations with constant coefficients by using method of variation of parameters.	0.80	2.50	1.1	Not Attained
CO3	Make use of analytical methods for PDE formation to solve boundary value problems.	2.40	2.50	2.4	Attained
CO4	Identify various techniques of Lagrange's method for solving linear partial differential equations which occur in Science and engineering.	1.20	2.50	1.5	Not Attained
CO5	Interpret the vector differential operators and their relationships for solving engineering problems	2.40	2.50	2.4	Attained
CO6	Apply the integral transformations to surface, volume and line of different geometrical models .	0.80	2.50	1.1	Not Attained

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

CO1:

- Conducted remedial classes revisiting first-order differential equations and solution techniques.

CO2: Reinforced fundamentals of higher-order linear differential equations through revision sessions

CO4: Conducted focused lectures on Lagrange's linear PDE method and its solution steps

CO6:

- Conducted supplementary classes on integral transformation techniques and coordinate systems.

Course Coordinator

Mentor

Head of the Department

Head of the Department  
Aeronautical Engineering  
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