INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

ELECTRONICS AND COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr. ARIJIT MONDAL**	Department:	**Electronics and Communication Engineering**
Regulation:	**IARE - BT23**	Batch:	**2023-2027**
Course Name:	**Complex Analysis and Special Functions**	Course Code:	**AHSD12**
Semester:	**III**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Identify the fundamental concepts of analyticity and differentiability for finding complex conjugates of complex transformations	3.00	2.20	2.8	Attained
CO2	Apply integral theorems of complex analysis and its consequences for the analytic function with derivatives of all orders in simple connected regions	3.00	2.20	2.8	Attained
CO3	Extend the Taylor's and Laurent's series for expressing the function in terms of complex power series	3.00	2.20	2.8	Attained
CO4	Apply Residue theorem for computing definite integrals by using the singularities and poles of real and complex analytic functions over closed curves.	3.00	2.20	2.8	Attained
CO5	Determine the characteristics of special functions for obtaining the proper and improper integrals for obtaining the proper and improper integrals.	2.20	2.20	2.2	Attained
CO6	Apply the role of Bessel functions in the process of obtaining the series solutions for second order differential equation.	1.80	2.20	1.9	Attained

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

Course Coordinator **Mentor** **Head of the Department**

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Professor & Head
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