INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

ELECTRONICS AND COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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Name of the faculty:	**Mr. G SATYANARAYANA**	Department:	**Electronics and Communication Engineering**
Regulation:	**IARE - UG20**	Batch:	**2022-2026**
Course Name:	**Complex Analysis and Special Functions**	Course Code:	**AHSC12**
Semester:	**IV**	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 , conformal mapping of complex transformation	1.30	2.00	1.4	Not Attained
CO2	Apply integral theorems of complex analysis and its consequences for the analytic function with derivatives of all orders in simple connected region	0.60	2.00	0.9	Not Attained
CO3	Extend the Taylor and Laurent series for expressing the function in terms of complex power series	0.90	2.00	1.1	Not Attained
CO4	Apply Residue theorem for computing definite integrals by using the singularities and poles of real and complex analytic functions over closed curve	0.60	2.00	0.9	Not Attained
CO5	Determine the characteristics of special functions for obtaining the proper and improper integrals for obtaining the proper and improper integrals	0.30	2.00	0.6	Not Attained
CO6	Apply the role of Bessel functions in the process of obtaining the series solutions for second order differential equation	0.30	2.00	0.6	Not Attained

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

CO1: Asingment of students concepts of analyticity and differentiability for finding complex conjugates , conformal mapping of complex transformation

CO2: Student to given assingment on integral theorems of complex analysis

CO3: Student to given assingment on Taylor and Laurent series

CO4: Student to given assingment problems on Residue theorem for computing definite integrals by using the singularities and poles of real and complex analytic functions

CO5: Student to given assingment on proper and improper integrals for obtaining the proper and improper integrals

CO6: Student to given assingment on Bessel functions in the process of obtaining the series solutions for second order differential equation

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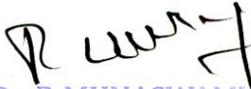
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