



INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500043, Telangana

ELECTRONICS AND COMMUNICATION ENGINEERING ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Ms. L INDIRA	Department:	Electronics and Communication Engineering
Regulation:	IARE - R20	Batch:	2021-2025
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	3.00	2.40	2.9	Attained
CO2	Apply integral theorems of complex analysis and its consequences for the analytic function with derivatives of all orders in simple connected region	0.90	2.40	1.2	Not Attained
CO3	Extend the Taylor and Laurent series for expressing the function in terms of complex power series	0.90	2.40	1.2	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	1.40	2.40	1.6	Not Attained
CO5	Determine the characteristics of special functions for obtaining the proper and improper integrals for obtaining the proper and improper integrals	1.60	2.30	1.7	Not Attained
CO6	Apply the role of Bessel functions in the process of obtaining the series solutions for second order differential equation	1.30	2.40	1.5	Not Attained

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

CO2: Students will be made to practice more problems and given assignments on complex integral theorems and their applications which enable them to gain more problem solving skills.

CO3: Students will be focused to practice more problems on infinite series to gain more knowledge on complex power series.

CO4: Tutorial classes will be conducted on poles of real and complex analytic functions over closed curve

CO5: Students will be made to practice more problems and given assignments on special functions for obtaining the proper and improper integrals for obtaining the proper and improper integrals

CO6: Students will be made to practice more problems and given assignments on Bessel functions in the process of obtaining the series solutions for second order differential equation

Indira
Course Coordinator

Gay
Mentor

R. Kumar
Head of the Department

Head of the Department
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