



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

ELECTRONICS AND COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOME- ACTION TAKEN REPORT

Name of the Faculty:	L Indira	Department:	ECE
Regulation:	R18	Batch:	2019-2023
Course Name:	Complex Analysis and Special Functions	Course Code:	AHSB05
Semester:	III	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Identify the fundamental concepts of analyticity and differentiability for finding complex conjugates and conformal mapping of complex transformations	0.9	2.2	1.2	Attainment target not yet reached
CO2	Apply integral theorems of complex analysis and its consequences for the analytic function with derivatives of all orders in simple connected region.	0.9	2.2	1.2	Attainment target not yet reached
CO3	Extend the Taylor and Laurent series for expressing the function in terms of complex power series.	2.3	2.2	2.3	Attainment target reached
CO4	Apply Residue theorem for computing definite integrals by using the singularities and poles of real and complex analytic functions over closed curves.	3	2.2	2.8	Attainment target reached
CO5	Determine the characteristics of special functions for obtaining the proper and improper integrals.	2.3	2.2	2.3	Attainment target reached
CO6	Apply the role of Bessel functions in the process of obtaining the series solutions for second order differential equation.	2.3		1.8	Attainment target reached

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

CO 1: Additional inputs are provided on the application of integral theorems of complex analysis and its consequences for the analytic function with derivatives of all orders
CO 2: Giving assignments and conducting tutorial classes on the Taylor and Laurent series for expressing the function in terms of complex power series


Course Coordinator


Mentor


HOD

Head of the Department
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