

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous) Dundigal, Hyderabad - 500 043

ELECTRONICS AND COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOME- ACTION TAKEN REPORT

Name of the Faculty:	Mr. M Venkata Chary	Department:	, ECE
Regulation:	R20	Batch:	2020-2024
Course Name:	Complex Analysis and Special Functions	Course Code:	AHSC12
Semester:	IV	Target Value:	60% (1.8)

Attainment of COs:

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Course Outcome		Direct	Indirect	Overall	Observations			
		Attainment	Attainment	Attainment				
CO1	Identify the fundamental concepts of analyticity and differentiability for finding complex conjugates, conformal mapping of complex transformation	0.9	2.4	1.2	Attainment target is 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	2.4	1.2	Attainment target is not yet reached			
CO3	Extend the Taylor and Laurent series for expressing the function in terms of complex power series	0.9	2.4	1.2	Attainment target is not yet reached			
CO4	Apply Residue theorem for computing definite integrals by using the singularities and poles of real and complex analytic functions over closed curve	0.9	2.4	1.2	Attainment target is not yet reached			
CO5	Determine the characteristics of special functions for obtaining the proper and improper integrals for obtaining the proper and improper integrals	1.6	2.4	1.8	Attainment target reached			
CO6	Apply the role of Bessel functions in the process of obtaining the series solutions for second order differential equation	0.6	2.4	1	Attainment target is not yet reached			

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

CO 1: Additional inputs are provided on the fundamental concepts of analyticity and differentiability for finding complex conjugates, conformal mapping of complex transformation

CO 2: Giving assignments and conducting tutorial classes on the application of integral theorems of complex analysis and its consequences for the analytic function with derivatives of all orders.

CO 3: Additional inputs are provided on the Taylor and Laurent series for expressing the function in terms of complex power series.

CO 4: Conducting Guest lectures on Apply Residue theorem for computing definite integrals by using the singularities and poles of real and complex analytic functions

CO 6: Giving assignments and conducting tutorial classes on the application of the role of Bessel functions in the process of obtaining the series solutions for second-order differential equation

Course Coordinator

Mentor

Dr. P. ASHOK BABU, M.E. Ph.D

Professor & Head

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