



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

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

Name of the Faculty:	Ms. B. Praveena	Department:	ECE
Regulation:	R18	Branch:	2018-2022
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	3	2.6	2.9	Attainment target reached
CO2 Apply integral theorems of complex analysis and its consequences for the analytic function with derivatives of all orders in simple connected region.	1.3	2.6	1.6	Attainment target is not reached
CO3 Extend the Taylor and Laurent series for expressing the function in terms of complex power series.	1.3	2.6	1.6	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 curves.	1.6	2.6	1.8	Attainment target reached
CO5 Determine the characteristics of special functions for obtaining the proper and improper integrals.	2.3	2.6	2.4	Attainment target reached
CO6 Apply the role of Bessel functions in the process of obtaining the series solutions for second order differential equation.	1.6		1.3	Attainment target is not yet reached

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

CO2: Need to provide more problems and assignments of complex analysis and its consequences for the analytic function.

CO3: Need to conduct Guest lectures on vector operations, theorems the Taylor and Laurent series for expressing the function.

CO6: Need to discuss more problems on the role of Bessel functions in the process of obtaining the series solutions.


Course Coordinator


Mentor


HOD

Head of the Department
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