



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. PAMULA RAJA KUMARI	Department:	Mechanical Engineering
Regulation:	IARE - R20	Batch:	2021-2025
Course Name:	Mathematical Transform Techniques	Course Code:	AHSC07
Semester:	II	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Explain the properties of Laplace and inverse transform to various functions such as continuous, piecewise continuous, step, impulsive and complex variable functions.	0.90	2.40	1.2	Not Attained
CO2	Make use of the integral transforms which converts operations of calculus to algebra in solving linear differential equations	0.30	2.40	0.7	Not Attained
CO3	Apply the Fourier transform as a mathematical function that transforms a signal from the time domain to the frequency domain, non-periodic function up to infinity.	0.90	2.40	1.2	Not Attained
CO4	Apply the definite integral calculus to a function of two or more variables in calculating the area of solid bounded regions	0.60	2.40	1	Not Attained
CO5	Develop the differential calculus which transforms vector functions, gradients. Divergence, curl, and integral theorems to different bounded regions in calculating areas.	0.00	2.40	0.5	Not Attained
CO6	Solve Lagrange's linear equation related to dependent and independent variables the nonlinear partial differential equation by the method of Charpit concern to the engineering field	0.30	2.40	0.7	Not Attained

Action Taken:

CO1: More assignments are to be given on Laplace and inverse transform to various functions.

CO2: More problems are to be solved in solving the linear differential equations using integral transformations.

CO3: More assignments are to be given on the application of the Fourier transform functions to transform a signal from the time domain to the frequency domain, a non-periodic function up to infinity.


CO4: More problems are to be solved in calculating the areas of bounded regions applying definite integrals.

CO5: More problems are to be solved in calculating the areas of bounded regions using transform functions.

CO6: More examples to be solved on Lagrange and Charpit method for solving linear, nonlinear partial differential equations.


Course Coordinator


Mentor


Head of the Department
Head of the Department
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