INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Mr. G SATYANARAYANA**	Department:	**Mechanical Engineering**
Regulation:	**IARE - R20**	Batch:	**2021-2025**
Course Name:	**Linear Algebra and Calculus**	Course Code:	**AHSC02**
Semester:	**I**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct attaiment	Indirect attaiment	Overall attaiment	Observation
CO1	Compute the rank and inverse of real and complex matrices with elementary transformation methods.	1.60	2.00	1.7	Not Attained
CO2	Use the Eigen values, Eigen vectors for developing modal and Spectral matrices from the given matrix.	1.30	2.00	1.4	Not Attained
CO3	Make use of Cayley Hamilton theorem for finding positive and negative powers of the matrix.	0.90	2.00	1.1	Not Attained
CO4	Utilize the mean–value theorems and partial derivatives in estimating the extreme values for functions of several variables.	0.60	2.00	0.9	Not Attained
CO5	Solve the Second and higher order linear differential equations with constant coefficients by using substitution method and method of variation of parameters.	0.60	2.00	0.9	Not Attained
CO6	Apply the Fourier Series expansion of periodic, even and odd functions in analyzing the square wave, sine wave rectifiers.	0.60	2.00	0.9	Not Attained

Action Taken:

CO1: More assignments may be given on finding the rank and inverse of real and complex matrices with elementary transformation methods

CO2: More problems may be solved on the application os Eigen values, and Eigen vectors for developing modal and Spectral matrices from the given matrix.

CO3: More exercises ma ybe given on the application os Cayley Hamilton theorem for finding positive and negative powers of the matrix.

CO4: More problems can be solved on application of the mean–value theorems and partial derivatives in estimating the extreme values for functions of several variables

CO5: More examples are to be solved on the Second and higher order linear differential equations with constant coefficients by using substitution method and method of variation of parameters.

CO6: More assignments can be given on the application of the Fourier Series expansion of periodic, even, and odd functions in analyzing the square wave, and sine wave rectifiers.

Course Coordinator **Mentor** **Head of the Department**

Head of the Department
Mechanical Engineering
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