



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## CIVIL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. G SATYANARAYANA	Department:	Civil 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 attainment	Indirect attainment	Overall attainment	Observation
CO1 Compute the rank and inverse of real and complex matrices with elementary transformation methods.	2.30	2.00	2.2	Attained
CO2 Use the Eigen values, Eigen vectors for developing modal and Spectral matrices from the given matrix.	2.30	2.10	2.3	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.	1.60	2.00	1.7	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.	2.30	2.00	2.2	Attained
CO6 Apply the Fourier Series expansion of periodic, even and odd functions in analyzing the square wave, sine wave rectifiers.	0.90	2.00	1.1	Not Attained

#### Action Taken:


CO3: Providing more information on and assignments on making use of Cayley Hamilton theorem for finding positive and negative powers of the matrix.

CO4: Additional inputs will be provided on utilizing the mean-value theorems and partial derivatives in estimating the extreme values for functions of several variables.

CO6: Need to provide more problems and assignments on applying 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  
Civil Engineering  
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