



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## CIVIL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. P SHANTAN KUMAR	Department:	Civil Engineering
Regulation:	IARE - R18	Batch:	2018-2022
Course Name:	Linear Algebra and Calculus	Course Code:	AHSB02
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.	2.40	2.70	2.5	Attained
CO2 Make use of Eigen values, Eigen vectors for developing modal, Spectral matrices and Cayley Hamilton for powers of the matrix.	2.40	2.70	2.5	Attained
CO3 Utilize the mean-value theorems and partial derivatives in estimating the extreme values for functions of several variables.	1.00	2.70	1.3	Not Attained
CO4 Solve the Second and higher order linear differential equations with constant coefficients by using substitution method and method of variation of parameters.	0.70	2.70	1.1	Not Attained
CO5 Apply the definite integral calculus to a function of two or more variable in calculating the area of solid bounded regions.	0.90	2.70	1.3	Not Attained
CO6 Calculate scalar and vector point function, line, surface, volume integral for bounded regions.	0.60	2.70	1	Not Attained

#### Action taken report:

##### CO3:

CO3: Giving assignments and conducting tutorials on utilizing the mean-value theorems and partial derivatives in estimating the extreme values for functions of several variables.

##### CO4:

CO4: Additional inputs will be provided on the Second and higher-order linear differential equations which enable the students to gain more problem-solving skills.

##### CO5:

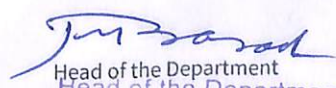
CO5: Providing more information on definite integral calculus to a function which enables the students to gain more problem-solving skills.

##### CO6:

CO6: Need to provide more problems and assignments on scalar and vector point functions which enables the students to gain more problem-solving skills.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Head of the Department  
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