



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad -500 043

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(DATA SCIENCE)

## ATTAINMENT OF COURSE OUTCOMES (COS) – ACTION PLAN

Name of the Faculty	Ms.B.Praveena	Department	CSE(DS)
Regulations	UG20	Batch	2020-2024
Course Name	Linear Algebra and Calculus	Course Code	AHSC02
Semester	I	Target Value	70%(2.1 on 3 Scale)

### Attainment of COs:

Course Outcomes		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Compute the rank and inverse of real and complex matrices with elementary transformation methods.	3	2.2	2.8	Target Attained
CO2	Use the Eigen values, Eigen vectors for developing modal and Spectral matrices from the given matrix.	0.9	2.3	1.2	Target Not Attained
CO3	Make use of Cayley Hamilton theorem for finding positive and negative powers of the matrix.	3	2.2	2.8	Target Attained
CO4	Utilize the mean-value theorems and partial derivatives in estimating the extreme values for functions of several variables.	2.3	2.3	2.3	Target Attained
CO5	Solve the Second and higher order linear differential equations with constant coefficients by using substitution method and method of variation of parameters.	2.3	2.2	2.3	Target Attained
CO6	Apply the Fourier Series expansion of periodic, even and odd functions in analyzing the square wave, sine wave rectifiers.	1.6	2.2	1.7	Target Not Attained

### Action taken report:

CO2: Students are facing problem in finding non trivial solution of system of homogeneous equations. We are planning to conduct tutorial classes more effective manner and creating interest by concentrating application part.

CO6: Conducting more seminars on Fourier series and its applications, so that students are get benefitted

Course Coordinator

Mentor

HOD

Head of the Department  
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