# INSTITUTE OF AERONAUTICAL ENGINEERING

**(Autonomous)**

Dundigal, Hyderabad -500 043

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(DATA SCIENCE)

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

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|---|---|---|---|
| Name of the Faculty | **Ms.B.Praveena** | Department | **CSE(DS)** |
| Regulations | **UG20** | Batch | **2021-2025** |
| 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 | 2.5 | 2.9 | Target Attained |
| CO2 | Use the Eigen values, Eigen vectors for developing modal and Spectral matrices from the given matrix. | 3 | 2.5 | 2.9 | Target Attained |
| CO3 | Make use of Cayley Hamilton theorem for finding positive and negative powers of the matrix. | 0.9 | 2.5 | 1.2 | Target Not Attained |
| CO4 | Utilize the mean–value theorems and partial derivatives in estimating the extreme values for functions of several variables. | 1.6 | 2.5 | 1.8 | Target 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. | 1.6 | 2.5 | 1.8 | Target Not Attained |
| CO6 | Apply the Fourier Series expansion of periodic, even and odd functions in analyzing the square wave, sine wave rectifiers. | 1.6 | 2.5 | 1.8 | Target Not Attained |

**Action taken report:**

CO3: In Cayley Hamilton related problems Students are not able to practice the problem so in tutorial classes students need to practice.

CO4: Students are not able to follow the geometrical meaning of different mean value theorem so try to focus more on geometrical meaning nd application part in regular classes

CO5: Try to practice more problems on tutorial classes on second and higher order linear differential equations

CO5: Arrange guest lectures on Fourier series and create interest in students. So that they will concentrate more

**Course Coordinator** **Mentor** **HOD**

Head of the Department
Data Science
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