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

## MECHANICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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|---|---|---|---|
| Name of the faculty: | **Ms. PRAVEENA RAO** | Department: | **Mechanical Engineering** |
| Regulation: | **IARE - BT23** | Batch: | **2023-2027** |
| Course Name: | **Matrices and Calculus** | Course Code: | **AHSD02** |
| Semester: | **I** | Target Value: | **60% (1.8)** |

Attainment of COs:

| | Course Outcome | Direct Attainment | Indirect Attainment | Overall Attainment | Observation |
|---|---|---|---|---|---|
| CO1 | Determine the rank and solutions of linear equations with elementary operations. | 3.00 | 2.20 | 2.8 | Attained |
| CO2 | Utilize the Eigen values, Eigen vectors for developing spectral matrices. | 1.60 | 2.20 | 1.7 | Not Attained |
| CO3 | Make use of Cayley-Hamilton theorem for finding powers of the matrix | 1.20 | 2.10 | 1.4 | Not Attained |
| CO4 | Interpret the maxima and minima of given functions. | 3.00 | 2.20 | 2.8 | Attained |
| CO5 | Apply the Fourier series expansion of periodic functions for harmonic series. | 0.40 | 2.10 | 0.7 | Not Attained |
| CO6 | Determine the volume of solid bounded regions by using the integral calculus. | 1.20 | 2.20 | 1.4 | Not Attained |

**Action Taken Report: (To be filled by the concerned faculty / course coordinator)**

CO2: Students will be made to practice more problems and given assignments on Eigen values, Eigen vectors

CO3: Students will be made to practice more problems and given assignments Cayley-Hamilton theorem for finding powers of the matrix which enable them to gain more solving skills.

CO5: Students will be made to practice more problems and given assignments Fourier series expansion of periodic functions for harmonic series which enable them to gain more solving skills.

CO6: Students will be made to practice more problems and given assignments volume of solid bounded regions by using the integral calculus enable them to gain more solving skills.

Praveena Rao
**Course Coordinator**

**Mentor**

**Head of the Department**

Head of the Department
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