



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

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|----------------------|--|---------------|-------------|
| Name of the faculty: | Mr. CH Chaitanya | Department: | CE |
| Regulation: | IARE - R16 | Batch: | 2017 – 2021 |
| Course Name: | Linear Algebra and Ordinary Differential Equations | Course Code: | AHS002 |
| Semester: | I | Target Value: | 60% (1.8) |

Attainment of COs:

| | Course Outcome | Direct attainment | Indirect attainment | Overall attainment | Observation |
|-----|---|-------------------|---------------------|--------------------|-------------------------------|
| CO1 | Calculate the rank and inverse of real and complex matrices with elementary transformation methods. | 3.00 | 2.6 | 2.9 | Attainment target reached |
| CO2 | Compute the diagonally equivalent matrix and Cayley Hamiltonion equation of the given matrix by using Eigen values and Eigen vectors. | 0.6 | 2.6 | 1 | Attainment target not reached |
| CO3 | Interpret the properties of differential equation of first order and first degree and orthogonal trajectories by using integration factor method | 2.00 | 2.50 | 2.1 | Attainment target reached |
| CO4 | Solve the Second and higher order linear homogeneous and non homogeneous differential equations with constant coefficients by using substitution method | 2.00 | 2.5 | 2.1 | Attainment target reached |
| CO5 | Interpret the extreme values for functions of several variables by using partial derivatives. | 0.3 | 2.6 | 0.8 | Attainment target not reached |
| CO6 | Apply mean-value theorems in establishing mathematical inequalities | 1.00 | 2.5 | 1.3 | Attainment target not reached |

Action taken report:

CO 2: Need to provide the more problems and assignments on equivalent matrix and Cayley Hamiltonion equation which enables the students to gain more problem-solving skills.

CO 5: Need to provide the more problems and assignments on partial derivatives which enables the students to gain more problem-solving skills.

CO 6: Need to provide the more problems and assignments on mean-value theorems which enables the students to gain more problem-solving skills.

Ch. Chaitanya
Course Coordinator

Ch. Chaitanya
Mentor

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HOD
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