



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

CIVIL ENGINEERING

## ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Prof N. Krishna Mohan	Department:	CE
Regulation:	IARE - R16	Batch:	2016 – 2020
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.	2.70	2.50	2.7	Attainment target reached
CO2	Compute the diagonally equivalent matrix and Cayley Hamiltonion equation of the given matrix by using Eigen values and Eigen vectors.	0.70	2.40	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	1.70	2.50	1.9	Attainment target reached
CO4	Solve the Second and higher order linear homogeneous and non homogeneous differential equations with constant coefficients by using substitution method	1.00	2.50	1.3	Attainment target not reached
CO5	Interpret the extreme values for functions of several variables by using partial derivatives.	2.70	2.50	2.7	Attainment target reached
CO6	Apply mean–value theorems in establishing mathematical inequalities	2.70	2.40	2.6	Attainment target reached

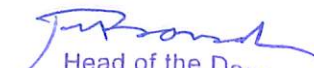
### Action taken report:

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 4: Need to provide the more problems and assignments on higher order linear homogeneous and non-homogeneous differential equations which enables the students to gain more problem-solving skills.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Civil Engineering  
HOD  
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