



# INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. S DEVARAJ	Department:	Aeronautical Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Finite Element Analysis	Course Code:	AAEC23
Semester:	VI	Target Value:	60% (1.8)

#### Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Explain the discretization concepts and shape functions of structural members for computing displacements and stresses	1.70	2.30	1.8	Attained
CO2	Make use of shape functions of truss and beam elements for obtaining stiffness matrix and load vector to compute nodal displacement, stresses.	1.30	2.30	1.5	Not Attained
CO3	Apply the discret models of CST element for estimating displacement and stress.	0.90	2.30	1.2	Not Attained
CO4	Make use of axis-symmetric modelling concepts to solids of revolution for stress approximation.	0.00	2.30	0.5	Not Attained
CO5	Apply numerical techniques to heat transfer problems to compute the temperature gradients under various thermal boundary conditions	0.70	2.30	1	Not Attained
CO6	Develop the governing equations for the dynamic systems to estimate circular frequency and mode shapes, in correlation with modern tools	1.00	2.30	1.3	Not Attained

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

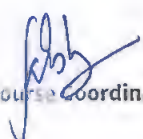
CO2: Additional examples on computing displacement and stresses in beams and trusses are to be provided.

CO3: Additional reading materials on CST element modelling are to be given.


CO4: Additional assignments on axisymmetric problems are to be provided.

CO5: Additional problems on heat transfer are to be provided.

CO6: Additional reading material on dynamic systems are to be provided for better understanding of the concept.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Aeronautical Engineering  
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