



AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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| Name of the faculty: | Mr. PEDDI DILLESWARA RAO | Department: | Aeronautical Engineering |
| Regulation: | IARE - UG20 | Batch: | 2021-2025 |
| 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 | 0.60 | 2.30 | 0.9 | Not Attained |
| CO2 | Make use of shape functions of truss and beam elements for obtaining stiffness matrix and load vector to compute nodal displacement, stresses. | 0.00 | 2.30 | 0.5 | Not Attained |
| CO3 | Apply the discrete models of CST element for estimating displacement and stress. | 0.90 | 2.30 | 1.2 | Not Attained |
| CO4 | Make use of axi-symmetric modelling concepts to solids of revolution for stress approximation. | 0.30 | 2.30 | 0.7 | Not Attained |
| CO5 | Apply numerical techniques to heat transfer problems to compute the temperature gradients under various thermal boundary conditions | 0.60 | 2.30 | 0.9 | Not Attained |
| CO6 | Develop the governing equations for the dynamic systems to estimate circular frequency and mode shapes, in correlation with modern tools | 0.30 | 2.30 | 0.7 | Not Attained |

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

- CO1: Additional reading content on shape functions of structural members is to be provided.
CO2: Additional problems on solving nodal displacement and stresses are to be provided.
CO3: Digital content for CST element for estimating displacement and stress is to be provided.
CO4: Digital content for axi-symmetric modelling concepts is to be provided.
CO5: Additional assignments on solving heat transfer problems are to be provided.
CO6: Additional reading materials on governing equations for the dynamic systems will be provided.


Course Coordinator


Mentor


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