



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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|----------------------|---------------------|---------------|--------------------------|
| Name of the faculty: | Mr. S DEVARAJ | Department: | Aeronautical Engineering |
| Regulation: | IARE - R20 | Batch: | 2021-2025 |
| Course Name: | Mechanics of Solids | Course Code: | AAEC01 |
| Semester: | III | Target Value: | 60% (1.8) |

Attainment of COs:


| Course Outcome | Direct Attainment | Indirect Attainment | Overall Attainment | Observation |
|---|-------------------|---------------------|--------------------|--------------|
| CO3 Analyze the effects of various loading conditions on symmetric and un symmetric beams for determining the flexural stresses. | 0.90 | 2.20 | 1.2 | Not Attained |
| CO5 Make use of different methods such as to find deflections under different loading conditions. | 1.60 | 2.10 | 1.7 | Not Attained |
| CO4 Illustrate the effects of various loading conditions on symmetric and un symmetric beams for determining the shear stresses. | 0.90 | 2.20 | 1.2 | Not Attained |
| CO2 Illustrate the shear force and bending moment in beams, for analyzing the structural behavior based on different loading conditions | 2.30 | 2.20 | 2.3 | Attained |
| CO1 Understand the concepts of stress-strain, material constitutional relationship and strain energy for solving the stresses and strain induced in the body under various loading conditions | 2.30 | 2.20 | 2.3 | Attained |
| CO6 Utilize the concept of stresses on inclined planes using graphical and analytical method for further comprehension of aircraft structures. Apply the concepts of shear stress induced in a circular shaft due to torsion, in designing key and shaft for power transmission. Interpret the analytical and graphical methods on an oblique section of a strained body for determining the principle stresses, shear stresses and their resultant useful in analysis of stresses. | 0.60 | 2.20 | 0.9 | Not Attained |

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

- CO3: Additional Problems are to be provided.
- CO5: Digital content to be provided for better understanding of concept.
- CO4: Additional Assignments are to be provided.
- CO6: Digital content to be introduced for better understanding of concept.


Course Coordinator


Mentor


Head of the Department
Aeronautical Engineering
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