



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## MECHANICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

|                      |                            |               |                        |
|----------------------|----------------------------|---------------|------------------------|
| Name of the faculty: | Dr. GVR. SESHAGIRI RAO     | Department:   | Mechanical Engineering |
| Regulation:          | IARE - R18                 | Batch:        | 2019-2023              |
| Course Name:         | Design of Machine Elements | Course Code:  | AMEB23                 |
| Semester:            | VI                         | Target Value: | 60% (1.8)              |

#### Attainment of COs:

| Course Outcome |   | Direct attainment | Indirect attainment | Overall attainment | Observation  |
|----------------|---|-------------------|---------------------|--------------------|--------------|
| CO1            | Outline the knowledge of design process and design standards, theories of failures, analyses the stresses and strains for various machine elements. | 0.90              | 2.30                | 1.2                | Not Attained |
| CO2            | Develop the Design procedure of riveted joints and welded joints for engineering applications like boilers, pressure vessels, ships and trusses.    | 0.00              | 2.30                | 0.5                | Not Attained |
| CO3            | Classify various types of keys and cotter joints used to employee secure to gears, pulleys, disc applications.                                      | 0.90              | 2.30                | 1.2                | Not Attained |
| CO4            | Develop the design procedures of knuckle joint for different loading conditions in propeller applications.  | 0.30              | 2.30                | 0.7                | Not Attained |
| CO5            | Select appropriate design procedures on the basis of strength, torsional rigidity for shafts and Couplings.   | 0.00              | 2.30                | 0.5                | Not Attained |
| CO6            | Evaluate the natural frequency, energy storage, stresses and deflections of helical springs for static and fatigue loadings.                        | 0.30              | 2.30                | 0.7                | Not Attained |

#### Action Taken:

CO1: More assignments may be given on analyses of the stresses and strains for various machine elements.

CO2: More exercises may be given on the design of riveted joints and welded joints.

CO3: More applications of keys and cotter joints may be given for the safe operation of gears, pulleys, and discs.

CO4: More exercises may be given on the design of the knuckle joints.

CO5: More assignments may be given on the design of shafts and Couplings.

CO6: More problems may be solved for natural frequency, energy storage, stresses, and deflections of helical springs under static and fatigue loadings.

  
Course Coordinator

  
Mentor

  
Head of the Department

Head of the Department  
Mechanical Engineering  
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