INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	**Dr.SATHEES KUMAR**	Department:	**Mechanical Engineering**
Regulation:	**IARE - R20**	Batch:	**2020-2024**
Course Name:	**Design of Machine Elements**	Course Code:	**AMEC14**
Semester:	**IV**	Target Value:	**60% (1.8)**

Attainment of COs:

	Course Outcome	Direct attaiment	Indirect attaiment	Overall attaiment	Observation
CO1	Outline the knowledge of design process and design standards, theories of failures, analyses the stresses and strainsfor various machine elements.	0.60	2.40	1	Not Attained
CO2	Develop the Design procedure of riveted joints and welded joints for engineering applications like boilers, pressure vessels, ships and trusses.	0.90	2.40	1.2	Not Attained
CO3	Classify various types of keys and cotter joints used to employee secure to gears, pulleys, disc applications.	0.90	2.40	1.2	Not Attained
CO4	Develop the design procedures of knuckle joint for different loading conditions in propeller applications.	0.60	2.40	1	Not Attained
CO5	Select appropriate design procedures on the basis of strength, torsional rigidity for shafts and Couplings.	0.30	2.40	0.7	Not Attained
CO6	Evaluate the natural frequency, energy storage, stresses and deflections of helical springs for static and fatigue loadings.	0.30	2.40	0.7	Not Attained

Action Taken:

CO1: More assignments may be given on design process and design standards, theories of failures, and analyses of the stresses and strains for various machine elements.
CO2: More tutorials may be conducted on the design procedure of riveted joints and welded joints for engineering applications.
CO3: More applications of the keys and cotter joints in the safe operation of gears and pulleys.
CO4: More tutorials may be conducted on the design procedures of the knuckle joints for different loading conditions in propeller applications.
CO5: More problems may be solved in designing shafts and Couplings.
CO6: More problems may be solved on deflections of helical springs for static and fatigue loadings.

Course Coordinator

M. Sunil Rao

Mentor

Head of the Department

Head of the Department
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