



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. D GOVARDHAN	Department:	Aeronautical Engineering
Regulation:	IARE - R18	Batch:	2019-2023
Course Name:	Mechanism and Machine Design	Course Code:	AAEB43
Semester:	VII	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Identify the mechanisms and their inversions based on pairs and joints and mobility of mechanisms using Grubler's and Grashof's criterion for studying motion of machine elements in engineering applications.	0.90	2.10	1.1	Not Attained
CO3 Choose the uniform velocity, simple harmonic motion and uniform acceleration, maximum velocity and acceleration during outward and return strokes effect of gyroscopic precession on the stability of vehicles	0.90	2.20	1.2	Not Attained
CO4 Illustrate the gear tooth geometry and appropriate gear train for power transmission at desired speeds and new design of gear boxes in engineering applications	0.90	2.20	1.2	Not Attained
CO5 Make use of the effect of gyroscopic couple for stabilization of ship, Aero-plane, two and four wheel vehicles during steering, pitching and rolling.	0.90	2.10	1.1	Not Attained
CO6 Explain the methods for reducing undesirable effects of unbalanced masse, when rotating same or different planes using graphical and analytical methods when rotating same or different planes using graphical and analytical methods .	0.90	2.10	1.1	Not Attained
CO2 Analyze the planar mechanisms for position, velocity and acceleration using instantaneous center method and graphical approach	0.60	2.10	0.9	Not Attained

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

CO1: Digital Content to be Provided for better understanding.

CO3: Additional reading material is to be provided.

CO4: Additional material is provided on gear train problems


CO5: Extra inputs are given to enhance the knowledge on gyroscopic couple

CO6: Material is given to understand the undesirable effects of unbalanced masse, when rotating same or different planes using graphical and analytical methods

CO2: Digital content is given to enhance the knowledge instantaneous center method and graphical approach

  
Course Coordinator

  
Mentor

  
Head of the Department  
Aeronautical Engineering  
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