AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. V PHANINDER REDDY	Department:	Aeronautical Engineering
Regulation:	IARE - R18	Batch:	2019-2023
Course Name:	Aerospace Structural Dynamics	Course Code:	AAEB25
Semester:	VII	Target Value:	60% (1.8)

Attainment of COs:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Apply principles of mechanical vibrations such as Newton's second law, and the principle of conservation of energy to the mathematical models for obtaining their governing equations of motion.	3.00	2.20	2.8	Attained
CO2	Analyze the mathematical modeling of the two degrees of freedom systems for determining the frequency of the spring-mass system.	3.00	2.20	2.8	Attained
CO3	Solve the natural frequencies and mode shapes of a multi degree of freedom system for the numerical solution of distributed parameter systems	2.30	2.20	2.3	Attained
CO4	Apply theoretical and numerical procedures for predicting the dynamic response of continuous structural systems under the most diverse loading conditions.	2.30	2.20	2.3	Attained
CO5	Utilize the equations of transverse, longitudinal, lateral and torsional vibration of strings, rods, bars and beams using Rayleigh Ritz method for designing aircraft ribs and spars.	2.30	2.20	2.3	Attained
CO6	Formulate the static aeroelasticity problems such as typical section and wing divergence problems; for their selection in real world applications	2.30	2.20	2.3	Attained

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

Course Coordinator   Mentor   Head of the Department
Aeronautical Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500 043