



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Dr. Y B Sudhir Sastry	Department:	Aeronautical Engineering
Regulation:	IARE - R16	Batch:	2016 - 2020
Course Name:	Aerospace Structural Dynamics	Course Code:	AAE015
Semester:	VII	Target Value:	65% (1.8)

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Explain the concepts of the equation of motion of free vibration and its response for determining the nature of single degree of freedom.	1.60	2.60	1.8	Attainment target reached
CO2	Apply the various equations of free and forced vibration for determining the frequency of the spring-mass system.	0.90	2.60	1.2	Attainment target is not yet reached
CO3	Understand the torsional vibrations of rotor and geared systems for determining the DOF of the vibrating systems.	0.90	2.60	1.2	Attainment target is not yet reached
CO4	Develop the formulation of stiffness and flexibility influence coefficients for simplifying solution of multi DOF systems.	0.90	2.60	1.2	Attainment target is not yet reached
CO5	Apply the transverse, longitudinal, torsional and lateral vibrations of cables, rods and beams for the design of continue elastic body.	0.90	2.50	1.2	Attainment target is not yet reached
CO6	Analyze the static and dynamic aero elasticity of the typical airfoil and wing sections of aircraft using Eigen functions and Laplace equation for design of aircraft wing.	0.90	2.60	1.2	Attainment target is not reached

Action taken report:

CO 2: Remedial classes have been conducted.

CO 3: Remedial classes have been conducted.


CO 4: Digital content and videos given in classes for better understanding of concept.

CO 5: Application oriented problems may be given.

CO 6: Real time application may be better for attainment.


Course Coordinator


Mentor


Head of the Department
Aeronautical Engineering
HOD
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