INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	**Dr. K Vishwanath Allamraju**	Department:	**ME**
Regulation:	**IARE - R16**	Batch:	**2017 - 2021**
Course Name:	**Dynamics of Machinery**	Course Code:	**AME011**
Semester:	**V**	Target Value:	**60% (1.8)**

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
O1	Discuss the effect of precession motion on the stability, the static and dynamic force analysis of dynamic and static members	3.00	2.50	2.9	Attainment target reached
CO2	Apply the laws of friction on clutches, brakes and dynamometers to reduce the power losses for the effective torque transmission	1.60	2.50	1.8	Attainment target reached
CO3	Justify the importance of torque and fluctuation of speeds for single and multi-cylindered engines to increase the mechanical efficiency	2.30	2.50	2.3	Attainment target reached
CO4	Estimate the height of a governor to regulate the speed of a prime mover at various load conditions.	0.90	2.60	1.2	Attainment target not reached
CO5	Determine the balanced mass for unbalanced rotary and reciprocating engines by analytical and graphical methods.	0.90	2.10	1.1	Attainment target not reached
CO6	Develop a mathematical modelling of free and forced vibration systems under damped and un-damped conditions to avoid the vibratory damages of aero-mechanical-civil structures and electrical and electronic components at various operated frequencies.	1.60	2.10	1.7	Attainment target not reached

Action taken report:

CO4: Tutorials may be conducted on governor regulate the speed of a prime mover at various load conditions.

CO5: More problems need to be done on unbalanced rotary and reciprocating engines.

CO6: More assignments may be given on free and forced vibration.

Course Coordinator **Mentor** **HOD**

Head of the Department.
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