



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad-500043

MECHANICAL ENGINEERING

## ATTAINMENT OF COURSE OUTCOME-ACTION TAKEN REPORT

Name of the faculty:	<b>Dr. V.V.S.H. Prasad</b>	Department:	<b>ME</b>
Regulation:	<b>IARE-R16</b>	Batch:	<b>2016 -2020</b>
Course Name:	<b>Dynamics of Machinery</b>	Course Code:	<b>AME011</b>
Semester:	<b>V</b>	Target Value:	<b>60% (1.8)</b>

### Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Discuss the effect of precession motion on the stability , the static and dynamic force analysis of dynamic and static members	0.90	1.80	1.1	Attainment target not reached
CO2 Apply the laws of friction on clutches, brakes and dynamometers to reduce the power losses for the effective torque transmission	0.90	2.20	1.2	Attainment target not reached
CO3 Justify the importance of torque and fluctuation of speeds for single and multi cylindered engines to increase the mechanical efficiency	0.90	2.50	1.2	Attainment target not 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	2.60	1.2	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.	0.90	2.50	1.2	Attainment target not reached


1.8

### Action taken report:

CO1: Additional tutorial hours required to practice inertia forces and D'Alembert's principle problems.  
 CO2: More assignments have to be solved in different types of Clutches and Brakes.  
 CO3: More practice required to solve crank effort and torque diagrams in flywheel.  
 CO4: More exercise has to be given for Governor problems.  
 CO5: Additional tutorial hours required to practice balancing of reciprocating masses.  
 CO6: Additional tutorial hours required to practice free and forced vibration systems.

  
 Course Coordinator

  
 Mentor

  
 Head of the Department  
 Mechanical Engineering  
**HOD**  
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