



INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty: **Dr. VVS HARNADH PRASAD** Department: **Mechanical Engineering**
Regulation: **IARE - R20** Batch: **2020-2024**
Course Name: **Dynamics of Machinery** Course Code: **AMEC18**
Semester: **V** Target Value: **60% (1.8)**

Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Discuss the Gyroscopes, effect of precession motion on the stability of moving vehicles such as motor car, motor cycle, aeroplanes and ships.	2.30	2.30	2.3	Attained
CO2 Determine the angle of heel to avoid upside down of a two wheeler vehicle while taking in left and right turns.	0.90	2.30	1.2	Not Attained
CO3 Illustrate the static and dynamic force analysis of two and three force members by graphical super position method.	0.90	2.30	1.2	Not Attained
CO4 Apply the laws of friction on clutches, brakes and dynamometers to reduce the power losses for the effective torque transmission.	2.30	2.30	2.3	Attained
CO5 Justify the importance of torque and fluctuation of speeds for single and multi cylindered engines and governors to increase the mechanical efficiency.	0.90	2.30	1.2	Not Attained
CO6 Determine the balanced mass and natural frequency for unbalanced rotary and reciprocating engines by analytical and graphical methods and equations of motion.	1.60	2.30	1.7	Not Attained

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

CO2: More tutorials to be conducted on the static and dynamic force analysis of dynamic and static members.
CO3: More tutorials to be conducted on the static and dynamic force analysis of dynamic and static members.
CO5: More problems to be solved on estimation of the height of a governor to increase the mechanical efficiency.
CO6: More tutorials to be conducted on balancing of rotary and reciprocating engines by analytical and graphical methods.


Course Coordinator


Mentor


Head of the Department
Mechanical Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500 043