



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 - R18	Batch:	2019-2023
Course Name:	Dynamics of Machinery	Course Code:	AMEB17
Semester:	V	Target Value:	60% (1.8)

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	2.50	1.2	Not Attained
CO2 Apply the laws of friction on clutches, brakes and dynamometers to reduce the power losses for the effective torque transmission.	0.60	2.60	1	Not Attained
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	Not Attained
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	Not Attained
CO5 Determine the balanced mass for unbalanced rotary and reciprocating engines by analytical and graphical methods.	0.90	2.50	1.2	Not Attained
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	Not Attained

Action Taken:

CO1: More tutorials to be conducted on the static and dynamic force analysis of dynamic and static members.

CO2: More problems to be solved on the application of the laws of friction on clutches, brakes and dynamometers.

CO3: More tutorials to be conducted on finding the mechanical efficiency of single and multi cylindered engines.

CO4: More problems to be solved on estimation of the height of a governor.

CO5: More tutorials to be conducted on balancing of rotary and reciprocating engines by analytical and graphical methods.

CO6: More problems to be solved on mathematical modelling of free and forced vibration systems under damped and un-damped conditions.


Course Coordinator


Mentor


Head of the Department

Head of the Department
Mechanical Engineering
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Dundigal, Hyderabad - 500 043