



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

BB-00

CIVIL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. BDY SUNIL	Department:	Civil Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Engineering Mechanics	Course Code:	AMEC01
Semester:	II	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Identify the resultant and unknown forces by free body diagram to a given equilibrium force system through mechanics laws and derived laws	0.90	2.30	1.2	Not Attained
CO2 Interpret the static and dynamic friction laws for the equilibrium state of a wedge, ladder and screw jack.	0.90	2.30	1.2	Not Attained
CO3 Identify the centroid and centre of gravity for the simple and composite plane sections from the first principles.	0.90	2.20	1.2	Not Attained
CO4 Calculate moment of inertia and mass moment of inertia of a circular plate, cylinder, cone, sphere other composite sections from the first principles.	0.60	2.20	0.9	Not Attained
CO5 Apply D'Alembert's principle and work energy equations to a dynamic equilibrium system by introducing the inertia force for knowing the acceleration and forces involved in the system.	0.60	2.30	0.9	Not Attained
CO6 Develop the governing equation for momentum and vibrational phenomena of mechanical system by using energy principles for obtaining coefficient of restitution and circular frequency	0.60	2.20	0.9	Not Attained

Action Taken:

CO1: Giving assignments and conducting tutorials on identifying the resultant and unknown forces by free body diagram to a given equilibrium force system through mechanics laws and derived laws

CO2: Additional inputs will be provided to interpret the static and dynamic friction laws for the equilibrium state of a wedge, ladder, and screw jack.

CO3: Providing more information on Identifying the centroid and center of gravity for the simple and composite plane sections from the first principles.

CO4: Need to provide more problems and assignments on the calculating moment of inertia and mass moment of inertia of a circular plate, cylinder, cone, sphere other composite sections from the first principles.

CO5: Giving assignments and conducting tutorials on applying D'Alembert's principle and work energy equations to dynamic equilibrium systems by introducing the inertia force to knowing the acceleration and forces involved in the system.

CO6: Additional inputs will be provided on developing the governing equation for momentum and vibrational phenomena of the mechanical systems by using energy principles for obtaining the coefficient of restitution and circular frequency.

Course Coordinator

Mentor

Head of the Department
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