INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	**Dr. YAGYA DUTTA DWIVEDI**	Department:	**Aeronautical Engineering**
Regulation:	**R16**	Batch:	**2016-20**
Course Name:	**Aircraft Stability and Control**	Course Code:	**AAE014**
Semester:	**VI**	Target Value:	**65% (1.8)**

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Explain the concept of static stability in longitudinal, lateral and directional modes by using mathematical expression for different aircrafts stability conditions	0.9	2.2	1.2	Attainment target not reached
CO2	Solve the design problems of the airframe components considering the aircraft static stability by using stability criteria equations and plots.	0.9	2.1	1.1	Attainment target not reached
CO3	Apply the aircraft equations of motion in 6-degree of freedom and transform one axis to another axis system by using mathematical formulations for understanding the behaviour in different flight manoeuvres.	0.9	2.2	1.2	Attainment target not reached
CO4	Develop the procedure to linearization of equations of motion by using perturbation theory for determining aerodynamic derivatives of the airplane.	0.9	2.1	1.1	Attainment target not reached
CO5	Examine the different types of dynamic modes in longitudinal, lateral and directional motion for the aircraft and their influence on dynamic stability and safety.	0.9	2.1	1.1	Attainment target not reached
CO6	Apply the advance theories of flight dynamics in design of modern control airplane control systems for enhancing aircraft performance, Modern control systems and autopilot system	0.9	2.1	1.1	Attainment target not reached

Action taken report:

CO 1: Digital content and assignments have to be increased.
CO 2: Remedial classes have been conducted.
CO 3: Remedial classes have been conducted.
CO 4: Digital content and videos given in classes for better understanding of concept.
CO 5: Application oriented problems may be given.
CO 6: Real time application may be better for attainment.

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

Head of the Department
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