



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	G RAM VISHAL	Department:	Aeronautical Engineering
Regulation:	IARE - R16	Batch:	2016 - 2020
Course Name:	Analysis of Aircraft Structures	Course Code:	AAE006
Semester:	IV	Target Value:	50% (1.8)

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO 1	Utilize the energy principles to aircraft structural components for interpreting minimal stress loading conditions.	1.3	2.7	1.6	Attainment target is not yet reached
CO 2	Choose the minimum energy principles and Fourier series solutions to thin rectangular plates subject to a given boundary conditions for predicting the stresses and strains.	1.0	2.7	1.3	Attainment target is not yet reached
CO 3	Inspect the deflection and twist produced in thin walled open and closed section beams under torsion loads for designing beams with minimum stresses.	0.3	2.5	0.7	Attainment target is not yet reached
CO 4	Develop the elementary beam bending theory to thin walled open and closed section beams for predicting warping and torsion of aircraft structural components	1.3	2.6	1.6	Attainment target is not yet reached
CO 5	Illustrate the concepts in structural idealization in transforming complex structural geometries to simple structural geometries used for interpreting the stress distribution on aircraft structures.	3.0	2.7	2.9	Attainment target reached
CO 6	Make use of maximum stress theories to aircraft structural components for determining failure stresses under various loading conditions.	2.7	2.5	2.7	Attainment target reached

Action taken report:

- CO 1: More assignments and application problems in energy principles may be given for better attainment prospects.
CO 2: More assignments and application problems in Fourier series may be given for better attainment prospects.
CO 3: More assignments and application problems in beam design may be given for better attainment prospects.
CO 4: More assignments and application problems in warping and torsion may be given for better attainment prospects.


Course Coordinator


Mentor

Head of the Department
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HOD