



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	<b>Dr. Y B Sudhir Sastry</b>	Department:	<b>Aeronautical Engineering</b>
Regulation:	<b>IARE - R16</b>	Batch:	<b>2017 - 2021</b>
Course Name:	<b>Analysis of Aircraft Structures</b>	Course Code:	<b>AAE006</b>
Semester:	<b>IV</b>	Target Value:	<b>54% (1.8)</b>

#### 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.	0.9	2.6	1.2	Attainment target is not 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.	0.6	2.6	1.0	Attainment target is not 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.	2	2.6	2.1	Attainment target 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	0.9	2.5	1.2	Attainment target is not 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.	0.9	2.6	1.2	Attainment target is not reached
CO 6	Make use of maximum stress theories to aircraft structural components for determining failure stresses under various loading conditions.	0.9	2.5	1.2	Attainment target is not reached

#### Action taken report: (To be filled by the concerned faculty / course coordinator)

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 4: More assignments and application problems in beam design may be given for better attainment prospects.

CO 5: More assignments and application problems in warping and torsion may be given for better attainment prospects.

CO 6: Real life problems may be included in assignments and question paper to make it more application oriented.

  
Course Coordinator

  
Mentor

  
Head of the Department  
Aeronautical Engineering  
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Dundigal, Hyderabad - 500 043  
HOD CO 043