



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. ARAVIND RAJAN AYAGARA	Department:	Aeronautical Engineering
Regulation:	IARE - R20	Batch:	2020-2024
Course Name:	Aerospace Structures	Course Code:	AAEC06
Semester:	IV	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Utilize the energy principles to aircraft structural components for interpreting minimal stress loading conditions	0.90	2.40	1.2	Not Attained
CO2 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	0.90	2.40	1.2	Not Attained
CO3 Inspect the deflection and twist produced in thin walled open and closed section beams under torsion loads for designing beams with minimum stresses.	0.90	2.40	1.2	Not Attained
CO4 Develop the elementary beam bending theory to thin walled open and closed section beams for predicting warping and torsion of aircraft structural components	0.00	2.40	0.5	Not Attained
CO5 Illustrate the concepts in structural idealization in transforming complex structural geometries to simple structural geometries used for interpreting the stress distribution on aircraft structures	1.60	2.40	1.8	Attained
CO6 Make use of maximum stress theories to aircraft structural components for determining failure stresses under various loading conditions.	0.90	2.40	1.2	Not Attained

Action Taken:

CO1: Additional reading materials are provided on energy principles.

CO2: Additional reading materials are provided on predicting stress and strains.

CO3: Digital content is given to enhance the knowledge of design of beams with minimum stress.

CO4: Digital content and videos are given in classes for a better understanding of concept.

CO6: Digital content and videos are given in classes for a better understanding of concept.

Course Coordinator

Mentor

Head of the Department

Head of the Department
Aeronautical Engineering
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