

**INSTITUTE OF AERONAUTICAL ENGINEERING**

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

**AERONAUTICAL ENGINEERING****ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

Name of the faculty:	Dr. BODAVULA ASLESHA	Department:	Aeronautical Engineering
Regulation:	IARE - UG20	Batch:	2022-2026
Course Name:	Analysis of Aircraft Structures	Course Code:	AAEC15
Semester:	V	Target Value:	60% (1.8)

**Attainment of COs:**

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Utilize the Impact Strength and Fatigue Strength concept for interpreting stresses due to axial, bending and torsional loads, effect of inertia, Goodman and Soderberg relationship, and stresses due to combined loading, cumulative fatigue damage	0.60	2.40	1	Not Attained
CO2	Choose Strain Energy and Columns concept for predicting the to axial, bending and Torsional loads, various end conditions, Euler's Column curve, Rankine's formula, and Column with initial curvature	1.70	2.30	1.8	Attained
CO3	Inspect Classification and characteristics of composite materials, Combinations of composite materials, for finding the Mechanical Behaviors	1.60	2.30	1.7	Not Attained
CO4	Develop Basic terminology-laminae, laminates, Manufacture - Initial form of constituent Materials for predicting Layup, Curing, Strength and stiffness Advantages, Cost Advantages, and Weight Advantages	0.90	2.40	1.2	Not Attained
CO5	Illustrate the concepts General aspects of Shear stress distribution for interpreting end of a closed section beam, Thin-walled rectangular section beam subjected to torsion	1.40	2.40	1.6	Not Attained
CO6	Make use of concept of Torsion of an arbitrary section beam, Distributed torque loading for determining the I-section beam subjected to torsion and Moment couple conditions.	0.70	2.30	1	Not Attained

**Action Taken Report: (To be filled by the concerned faculty / course coordinator)**


CO1: Additional materials and videos are shown for better understanding of concepts

CO3: experimental study is provided of composite materials to understand their mechanical behaviors.

CO4: showed the manufacturing process of composite materials to predict layup, curing, strength, stiffness, cost, and weight advantages.

CO5: Additional materials and videos are shown for better understanding of concepts

CO6: Additional materials and videos are shown for better understanding of concepts

  
Course Coordinator  
Mentor  
Head of the DepartmentHead of the Department  
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