



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. K ARUN KUMAR	Department:	Aeronautical Engineering
Regulation:	IARE - BT23	Batch:	2023-2027
Course Name:	Aerospace Structures Laboratory	Course Code:	AAED11
Semester:	IV	Target Value:	60% (1.8)

#### Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Use the amount of load for stress and strain to illustrate the characteristics of materials subjected to tensile loads in engineering	1.20	0.00	1.2	Not Attained
CO2 Examine the purpose of aerospace structural design, to illustrate the deflections of beams subjected to transverse loads under various end circumstances.	1.20	0.00	1.2	Not Attained
CO3 Utilize the Beam test rig and apply Maxwell's reciprocal theorem to simplify the analysis through symmetry.	1.20	0.00	1.2	Not Attained
CO4 Inspect the crucial buckling loads of columns that are subjected to compression loads so that constructions can be designed efficiently under a range of end circumstances.	1.20	0.00	1.2	Not Attained
CO5 Determine which columns in the South-well plot are subject to axial loads in order to determine the critical loads.	1.20	0.00	1.2	Not Attained
CO6 Make use of a beam's asymmetrical bending behavior in terms of aerospace structure design.	1.20	0.00	1.2	Not Attained

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

- CO1: Conducted additional lectures explaining stress-strain relationships and material properties under tensile loading.  
CO2: Reinforced theoretical concepts of beam deflection under different loading and boundary conditions.  
CO3: Conducted laboratory demonstrations using the beam test rig to observe deflection behavior  
CO4: Delivered additional lectures on column buckling theory and Euler's critical load concept  
CO5: Introduced the Southwell plot technique through step-by-step explanation and examples.  
CO6: Reinforced concepts of unsymmetrical bending through additional lectures and illustrations

  
Course Coordinator

  
Mentor

  
Head of the Department

Head of the Department  
Aeronautical Engineering  
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