



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. V VARUN	Department:	Aeronautical Engineering
Regulation:	IARE - R18	Batch:	2018-2022
Course Name:	Analysis of Aircraft Structures	Course Code:	AAEB14
Semester:	V	Target Value:	60% (1.8)

Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Illustrate the S-N diagram for estimating the endurance limit (failure point) under mean and alternating stresses.	3.00	2.50	2.9	Attained
CO2 Analyze the stresses developed in components like notches, shafts, and methods to reduce stress concentrations for better resistance against failure.?	3.00	2.30	2.9	Attained
CO3 Apply the fracture mechanics theories for materials (Ductile, Brittle) subjected to crack(s) for determining the conditions for failure.	3.00	2.40	2.9	Attained
CO4 Illustrate the influence of material thickness, fracture toughness, and stress intensity factors for cracked bodies of various geometries for stress and strain patterns.	3.00	2.40	2.9	Attained
CO5 Demonstrate the crack growth mechanisms for estimating the life of the structural components.	3.00	2.40	2.9	Attained
CO6 Summarize various types of composite materials for deducing the governing constitutive relations for various types of loads and deflections.	0.90	2.30	1.2	Not Attained

Action taken report:

CO6:

Additional reading materials are to be provided.


Course Coordinator


Mentor


Head of the Department

Head of the Department
Aeronautical Engineering
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