



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	<b>G Ram Vishal</b>	Department:	<b>Aeronautical Engineering</b>
Regulation:	<b>IARE - R16</b>	Batch:	<b>2016 - 2020</b>
Course Name:	<b>Mechanics of Solids Laboratory</b>	Course Code:	<b>AAE101</b>
Semester:	<b>III</b>	Target Value:	<b>85% (1.8)</b>

#### Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO 1	Examine the Hardness of mild steel, carbon steel, brass and aluminum specimens using Brinell's and Rockwell's hardness test for characterization of materials used in engineering applications.	3.0	0	3.0	Attainment target reached
CO 2	Make use of stress and strains relations of mild steel materials for observing ultimate load using Universal testing machine for design of machine components.	3.0	0	3.0	Attainment target reached
CO 3	Identify the modulus of rigidity of a given shaft and spring wire for designing aerospace and automobile structures under loading conditions.	3.0	0	3.0	Attainment target reached
CO 4	Analyze the impact strength of steel using Izod and Charpy test for characterization under suddenly applied load.	3.0	0	3.0	Attainment target reached
CO 5	Identify the buckling load and crushing load of long and short columns for designing structures subjected to different loads and boundary conditions.	3.0	0	3.0	Attainment target reached
CO 6	Choose the deflection equation of simply supported and cantilever beam for determining the young's modulus to predict the behavior of the beam.	3.0	0	3.0	Attainment target reached

#### Action taken report:

*Ram*  
Course Coordinator

*Ram*  
Mentor

Head of the Department  
Aeronautical Engineering  
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**HOD**