



## MECHANICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Mr. ATHOTA RATHAN	Department:	Mechanical Engineering
Regulation:	IARE - R18	Batch:	2019-2023
Course Name:	Airframe Structural Design	Course Code:	AAEB54
Semester:	V	Target Value:	60% (1.8)

#### Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Understand the theoretical knowledge behind the design and development of aircrafts and spacecraft for distinguishing them based on the mission requirements.	0.90	2.40	1.2	Not Attained
CO2 Apply Newton's law of motion to determine the governing equations, for interpreting the physics of flow over an aircraft and spacecraft.	0.90	2.30	1.2	Not Attained
CO3 Identify the performance parameters of an aircraft and spacecraft based on the aerodynamic forces and moments acting on the body.	0.90	2.40	1.2	Not Attained
CO4 Classify different types of aircraft propulsion systems and the effect of operating variables on its performance.	0.90	2.40	1.2	Not Attained
CO5 Choose an appropriate airframe design to withstand all types of loads in different flight conditions	1.60	2.40	1.8	Attained
CO6 Design the advanced UAVS models like and flapping wing models and micro-aerial vehicles.	0.90	2.30	1.2	Not Attained

#### Action Taken:

CO1: More tutorials to be given on design and development of aircrafts and spacecrafts.

CO2: More problems to be solved on application of Newton's law of motion on flow over an aircraft and spacecraft.

CO3: More assignments to be given on finding aerodynamic forces and moments acting on the body.

CO4: More tutorials to be conducted on the effect of operating variables on its performance of aircraft propulsion systems.

CO6: More problems to be solved on design of UAVS models and flapping wing models and micro-aerial vehicles.

  
Course Coordinator

  
Mentor

  
Head of the Department

Head of the Department  
Mechanical Engineering  
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