



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

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

Name of the faculty:	Dr. G SRAVANTHI	Department:	Aeronautical Engineering
Regulation:	IARE - BT23	Batch:	2023-2027
Course Name:	Aerospace Propulsion	Course Code:	AAED15
Semester:	V	Target Value:	60% (1.8)

### Attainment of COs:

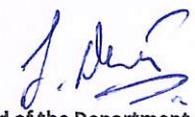
Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Identify the equations of various orbits for Launch vehicle ascent trajectories	0.80	2.30	1.1	Not Attained
CO2 Classify the operating principles of rocket engines for determining the performance characteristics of various multistage rocket.	1.20	2.30	1.4	Not Attained
CO3 Discuss propellant grain design concepts implemented in solid rocket propulsion for selecting optimal grain design based on requirements.	1.20	2.30	1.4	Not Attained
CO4 Compare different propellant concepts implemented in rocket motor for identifying the optimal combinations based on particular application	0.00	2.30	0.5	Not Attained
CO5 Make use of the concepts of electric propulsion systems for selecting the suitable technique as per the mission requirements.	0.80	2.30	1.1	Not Attained
CO6 Understand the role and military functions of space launch vehicles and guided missile systems for analyzing their types, missions, on successful global launch vehicles and the Indian missile program.	0.40	2.30	0.8	Not Attained

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

- CO1: Explained equations for circular, elliptical, transfer, and escape orbits using solved examples
- CO2: Reinforced concepts through revision lectures on rocket engine types and working principles
- CO3: Explained neutral, progressive, and regressive burning concepts using diagrams
- CO4: Explained advantages, limitations, safety, and storage characteristics of each propellant type
- CO5: Discussed satellite and deep-space mission case studies
- CO6: Explained military applications and classification of guided missile systems

  
Course Coordinator

  
Mentor

  
Head of the Department  
Head of the Department  
Aeronautical Engineering  
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