

INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AEROSPACE ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. PRAVEEN KUMAR BALGURI	Department:	Aerospace Engineering	
Regulation:	IARE - MT23	Batch:	2023-2025	
Course Name:	Rockets and Missiles	Course Code:	BAED16	
Semester:	II	Target Value:	60% (1.8)	

Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Utilize the working principle of different types of rocket propulsion systems for distinguishing them based on the mission requirement	1.20	2.30	1.4	Not Attained
CO2	Discuss different design concepts implemented in solid rocket motor and liquid rocket engine for selecting the best propellant	1.20	2.20	1.4	Not Attained
CO3	Identify performance parameters of chemical rocket and propellants for relating thrust and burn characteristics	1.20	2.30	1.4	Not Attained
CO4	Summarize various combustion process and commonly used propellants of a chemical rocket engine for identifying the optimal combinations based on specific application	0.40	2.30	0.8	Not Attained
CO5	Categorize various missiles and their appropriate guidance system to provide sufficient capability (speed, range, and maneuverability) and accomplish the mission planned for the system	1.40	2.50	1.6	Not Attained
C06	Understand selection criteria and properties of materials to perform under adverse conditions for design of new components as per the requirements	0.60	2.50	1	Not Attained

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

CO1: learned how different rocket propulsion systems work and used this knowledge to choose the right type based on what a space mission needs, like how much thrust, how long it burns, and how controllable it is.

CO2: Students discussed different design concepts to understand how these affect the selection of the best propellant based on performance, storage, handling, and mission type.

CO3: Understood how these factors help in selecting the most suitable propellant based on mission needs and performance requirements.

CO4: Identified the best combinations based on specific applications like launch vehicles, satellites, and defense systems.

CO5: Additional materials are provided

CO6: Digital content and videos are presented

Course Coordinator

Mentor

Head of the Department

Head of the Department
Aeronautical Engineering
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