



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Ms. G SRAVANTHI	Department:	Aeronautical Engineering
Regulation:	IARE - R20	Batch:	2021-2025
Course Name:	Aerospace Propulsion	Course Code:	AAEC14
Semester:	V	Target Value:	60% (1.8)


Attainment of COs:

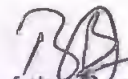
	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Identify the equations of various orbits for Launch vehicle ascent trajectories.	0.90	2.00	1.1	Not Attained
CO2	Classify the operating principles of rocket engines for determining the performance characteristics of various multistage rocket.	0.90	2.00	1.1	Not Attained
CO3	Discuss propellant grain design concepts implemented in solid rocket propulsion for selecting optimal grain design based on requirements.	0.90	2.00	1.1	Not Attained
CO4	Identify various erosive burning and combustion instability performance parameters for determine the burning rate and combustion characteristics.	0.00	2.00	0.4	Not Attained
CO5	Compare different propellant concepts implemented in rocket motor for identifying the optimal combinations based on particular application.	0.30	1.90	0.6	Not Attained
CO6	Make use of the concepts of electric propulsion systems for selecting the suitable technique as per the mission requirements.	0.00	1.90	0.4	Not Attained

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

- CO1: Digital content on launch ascent trajectories and their equations are to be given
CO2: Additional reading material on the operating principles of rocket engines is to be provided.
CO3: Additional content on selecting optimal grains in solid rocket propulsion is to be given.
CO4: Reading content on erosive burning and combustion instability is to be given.
CO5: Additional content on optimal combinations of propellants in rockets is to be given.
CO6: Digital content on concept of electric propulsion is to be given for better understanding.


Course Coordinator


Mentor


Head of the Department
Aeronautical Engineering
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500 043