INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	**G Sravanthi**	Department:	**Aeronautical Engineering**
Regulation:	**R16**	Batch:	**2017-2021**
Course Name:	**Space Propulsion**	Course Code:	**AAE012**
Semester:	**VI**	Target Value:	**70% (1.8)**

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Estimate launch dynamics parameters using orbital transfer and trajectorial pertubation for calculating orbit placement propulsion weight.	3.0	1.6	2.7	Attainment target reached
CO2	Make use of rocket equation and fundamental principles for designing static test bed of rockets	3.0	1.6	2.7	Attainment target reached
CO3	Design solid rocket motor propellant grain for optimizing proper burn rate requirement as per mission profile	1.6	1.6	1.6	Attainment target not reached
CO4	Classify solid rocket motor burn pattern for solving combustion instability in erosive burning	0.0	1.6	0.3	Attainment target not reached
CO5	Distinguish liquid, cryogenic and hybrid rocket systems for selecting optimal rocket propulsion system in deep space missions	2.1	1.6	2	Attainment target reached
CO6	Illustrate advanced propulsion techniques for explaining fuel utility mitigation in long overhaul mission involving select board refuelling.	1.4	1.6	1.4	Attainment target not reached

Action taken report:

CO 3: Remedial classes have been conducted.

CO 4: Digital content and videos given in classes for better understanding of concept.

CO 6: Minor modification of syllabus may be required for attainment.

Course Coordinator **Mentor** **HOD**

Head of the Department
Aeronautical Engineering
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