



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

AERONAUTICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME – ACTION TAKEN REPORT

Name of the faculty:	Dr. Prasanta Kumar Mohanta	Department:	Aeronautical Engineering
Regulation:	IARE - R16	Batch:	2016 - 2020
Course Name:	Space Mechanics	Course Code:	AAE016
Semester:	VII	Target Value:	65% (1.8)

Attainment of COs:

Course Outcome		Direct attainment	Indirect attainment	Overall attainment	Observation
CO1	Relate the concepts in Solar system, Lagrange-Jacobi identity and N-body problem for describing the reference frames, coordinate systems and Earth's atmosphere.	1.6	2.6	1.8	Attainment target reached
CO2	Demonstrate the dependence of orbital parameters of orbit deviations using Orbital elements for Launch vehicle ascent trajectories.	0.9	2.7	1.3	Attainment target is not yet reached
CO3	Identify the Equations of motion and characteristics of orbits using the relation between orbital elements and position for different orbits.	0.9	2.6	1.2	Attainment target is not yet reached
CO4	Classify the 2D, 3D interplanetary trajectories and general perturbations in Cowell's Method for launching interplanetary spacecraft and identifying trajectory of the target planet.	0.3	2.7	0.8	Attainment target is not yet reached
CO5	Outline the boost phase, ballistic phase and trajectory geometry using the techniques of Re-entry for Ballistic Missile Trajectories.	0.3	2.7	0.8	Attainment target is not yet reached
CO6	Demonstrate the mission performance parameters with help of constant radial thrust acceleration, constant tangential thrust for Low thrust trajectories.	0.3	2.6	0.8	Attainment target is not yet reached

Action taken report:

CO 2: Remedial classes have been conducted.

CO 3: Remedial classes have been conducted.


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

CO 5: Application oriented problems may be given.

CO 6: Real time application may be better for attainment.


Course Coordinator


Mentor


Head of the Department
Aeronautical Engineering
HOD
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