



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## AERONAUTICAL ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. B MANIKYA PRATIMA	Department:	Aeronautical Engineering
Regulation:	IARE - R18	Batch:	2019-2023
Course Name:	Waves and Optics	Course Code:	AHSB04
Semester:	I	Target Value:	60% (1.8)

#### Attainment of COs:

Course Outcome	Direct attainment	Indirect attainment	Overall attainment	Observation
CO1 Apply the concepts of dual nature of matter and Schrodinger wave equation to a particle enclosed in simple systems.	0.90	2.70	1.3	Not Attained
CO2 Demonstrate the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level.	0.90	2.70	1.3	Not Attained
CO3 Compare the concepts of LASER and normal light in terms of mechanism and working principles for applications in various fields and scientific practices.	1.30	2.70	1.6	Not Attained
CO4 Explain functionality of components in optical fiber communication system by using the basics of signal propagation, attenuation and dispersion.	3.00	2.60	2.9	Attained
CO5 Interpret the phenomenon of interference and diffraction by using the principles of wave motion and superposition.	0.60	2.70	1	Not Attained
CO6 Make use of the concept of simple harmonic motion and arrive at expressions for damped, forced harmonic oscillators and wave equations by using necessary mathematical formulations.	0.60	2.60	1	Not Attained

#### Action Taken:

CO1: Digital content and videos are given in classes for a better understanding of concept.

CO2: Additional reading materials are provided on classification.

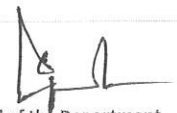
CO3: Digital content and videos are given in classes for a better understanding of concept.

CO5: Digital content and videos are given in classes for a better understanding of concept.

CO6: Extra inputs are given to enhance the knowledge in SHM.

  
Course Coordinator

  
Mentor

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