



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. RIZWANA	Department:	Mechanical 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	2.80	1.3	Not Attained
CO2 Demonstrate the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level.	0.60	2.80	1	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.	2.00	2.80	2.2	Attained
CO4 Explain functionality of components in optical fiber communication system by using the basics of signal propagation, attenuation and dispersion.	3.00	2.80	3	Attained
CO5 Interpret the phenomenon of interference and diffraction by using the principles of wave motion and superposition.	2.30	2.80	2.4	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.	0.90	2.80	1.3	Not Attained

Action Taken:


CO1: More assignments are to be given on the application of concepts of the dual nature of matter and the Schrodinger wave equation to a particle enclosed in simple systems.

CO2: More assignments are to be given on the classification of solids and applications of semiconductors

CO6: More assignments are to be given on the derivations of damped, forced harmonic oscillators and wave equations.


Course Coordinator


Mentor


Head of the Department
Head of the Department
Mechanical Engineering
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