



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Doodigal, Hyderabad - 500043, Telangana

MECHANICAL ENGINEERING

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. VEERASWAMY YARAGANI	Department:	Mechanical Engineering
Regulation:	IARE - R18	Batch:	2018-2022
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.	2.00	2.30	2.1	Attained
CO2	Demonstrate the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level.	1.00	2.20	1.2	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.	0.60	2.20	0.9	Not Attained
CO4	Explain functionality of components in optical fiber communication system by using the basics of signal propagation, attenuation and dispersion.	1.60	2.20	1.7	Not Attained
CO5	Interpret the phenomenon of interference and diffraction by using the principles of wave motion and superposition.	0.90	2.20	1.2	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	2.20	0.9	Not Attained

Action Taken:

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

CO3: More real-time applications may be given on Laser and normal light for better understanding.

CO4: More applications may be given on optical fiber communication system by using the basics of signal propagation.

CO5: More assignment may be given on phenomena of interference and diffraction.

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
INSTITUTE OF AERONAUTICAL ENGINEERING
Doodigal, Hyderabad - 500043