



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

**CIVIL ENGINEERING**

**ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT**

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

**Attainment of COs:**


	<b>Course Outcome</b>	<b>Direct attainment</b>	<b>Indirect attainment</b>	<b>Overall attainment</b>	<b>Observation</b>
CO1	Apply the concepts of dual nature of matter and Schrodinger wave equation to a particle enclosed in simple systems.	2.70	2.90	2.7	Attained
CO2	Demonstrate the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level.	1.30	2.90	1.6	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	2.90	2.2	Attained
CO4	Explain functionality of components in optical fiber communication system by using the basics of signal propagation, attenuation and dispersion.	1.70	2.90	1.9	Attained
CO5	Interpret the phenomenon of interference and diffraction by using the principles of wave motion and superposition.	2.40	2.70	2.5	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.	2.40	2.70	2.5	Attained

**Action Taken:**

CO2: Digital content and assignments will be given to understand the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level

  
Course Coordinator

  
Mentor

  
Head of the Department  
Head of the Department  
Civil Engineering  
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