



**INSTITUTE OF AERONAUTICAL ENGINEERING**  
(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

**CIVIL ENGINEERING**

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

|                      |                     |               |                   |
|----------------------|---------------------|---------------|-------------------|
| Name of the faculty: | Dr. RIZWANA         | Department:   | Civil Engineering |
| Regulation:          | IARE - R20          | Batch:        | 2021-2025         |
| Course Name:         | Engineering Physics | Course Code:  | AHSC03            |
| 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   | 3.00              | 2.50                | 2.9                | Attained    |
| CO2 Demonstrate the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level..   | 1.60              | 2.50                | 1.8                | 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                              | 1.60              | 2.50                | 1.8                | Attained    |
| CO4 Explain functionality of components in optical fiber communication system by using the basics of signal propagation, attenuation and dispersion                                      | 3.00              | 2.50                | 2.9                | Attained    |
| CO5 Interpret the phenomenon of interference and diffraction by using the principles of wave motion and superposition  | 2.30              | 2.40                | 2.3                | 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. | 1.60              | 2.40                | 1.8                | Attained    |

**Action Taken:**

  
Course Coordinator

  
Mentor

  
Head of the Department  
Head of the Department  
Civil Engineering  
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