



INSTITUTE OF AERONAUTICAL ENGINEERING (Autonomous)

Dundigal, Hyderabad - 500043, Telangana

ELECTRICAL AND ELECTRONICS ENGINEERING ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

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|----------------------|------------------------|---------------|--|
| Name of the faculty: | Ms. SINGAVARAPU SUJANI | Department: | Electrical and Electronics 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 | 2.30 | 2.50 | 2.3 | Attained |
| CO2 Demonstrate the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level.. | 0.90 | 2.60 | 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 | 0.90 | 2.50 | 1.2 | 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 | 1.30 | 2.50 | 1.5 | 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. | 0.90 | 2.60 | 1.2 | Not Attained |

Action Taken Report: (To be filled by the concerned faculty / course coordinator)

CO2: Explain the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level

CO3: Model based learning are planned

CO5: Extra classes should be taken

CO6: Make more use of the concept of simple harmonic motion and arrive at expressions

S. Sujani
Course Coordinator

[Signature]
Mentor

[Signature]
Head of the Department