



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)  
Dundigal, Hyderabad - 500 043

## ELECTRONICS AND COMMUNICATION ENGINEERING ATTAINMENT OF COURSE OUTCOME- ACTION TAKEN REPORT

Name of the Faculty:	<b>Dr M Suman Kalyan</b>	Department:	<b>ECE</b>
Regulation:	<b>UG20</b>	Branch:	<b>2020-2024</b>
Course Name:	<b>Engineering Physics</b>	Course Code:	<b>AHSC03</b>
Semester:	<b>I</b>	Target Value:	<b>60% (1.8)</b>

### Attainment of COs:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Apply the concepts of dual nature of matter and Schrodinger wave equation to a particle enclosed in simple systems	1.6	2.2	1.7	Attainment target is not reached
CO2	Demonstrate the classification of solids and important aspects of semiconductors in terms of carrier concentration and Fermi level..	0.9	2.2	1.2	Attainment target is not reached
CO3	Compare the concepts of LASER and normal light in terms of mechanism and working principles for applications in various fields and scientific practices	0.9	2.2	1.2	Attainment target is not yet reached
CO4	Explain functionality of components in optical fiber communication system by using the basics of signal propagation, attenuation and dispersion	2.3	2.2	2.3	Attainment target is not yet reached
CO5	Interpret the phenomenon of interference and diffraction by using the principles of wave motion and superposition	1.6	2.2	1.7	Attainment target is not reached
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.	0.6	2.2	0.9	Attainment target is not reached

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

CO 3: Additional inputs will be provided on the pn junction characteristics for the diode applications for improving students performance.


CO 4: Additional inputs and assignments will be provided on constructional features and principle operation of bipolar and uni-polar devices.

CO 5: Additional inputs will be provided on current gain, voltage gain of bipolar junction transistor and field effect transistor for improving students performance.

CO 6: Giving assignments and conducting tutorials on the input and output characteristics of transistor configurations for determining the input - output resistances, current gain and voltage gain

  
Course Coordinator

  
Mentor

  
HOD  
Head of the Department  
Electronics and Communication Engineering  
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