



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

## ELECTRONICS AND COMMUNICATION ENGINEERING

### ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty: **Mr. G KIRAN KUMAR** Department: **Electronics and Communication Engineering**  
Regulation: **IARE - BT23** Batch: **2023-2027**  
Course Name: **Communication Systems** Course Code: **AECD10**  
Semester: **IV** Target Value: **60% (1.8)**

#### Attainment of COs:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1 Outline the basic concepts of communication system, need of modulation and fundamental elements to realize amplitude modulation systems.	3.00	2.20	2.8	Attained
CO2 Interpret the generation and detection techniques of frequency and phase modulated waves used for audio signal transmission.	3.00	2.20	2.8	Attained
CO3 Illustrate the concept of pulse modulation schemes, sampling, quantization, and coding for obtaining of digital data	3.00	2.20	2.8	Attained
CO4 Examine the various pass band communication techniques, including Amplitude Shift Keying (ASK), Phase Shift Keying (PSK) and Frequency Shift Keying (FSK) utilized in the digital data transmission process.	2.40	2.20	2.4	Attained
CO5 Construct the Unipolar, Bipolar signals using binary and multilevel line coding methods.	3.00	2.20	2.8	Attained
CO6 Identify the source coding techniques to detect and correct the errors for secure digital communications.	3.00	2.20	2.8	Attained

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

  
Course Coordinator

  
Mentor

  
Head of the Department

**Dr. P. MUNASWAMY** M.Tech, Ph.D, MISTE  
Professor & Head  
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