



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

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

| | | | |
|----------------------|-----------------------------------|---------------|-----------|
| Name of the Faculty: | Mrs. G Ajitha | Department: | ECE |
| Regulation: | UG20 | Branch: | 2020-2024 |
| Course Name: | Analog and digital communications | Course Code: | AECC10 |
| Semester: | IV | Target Value: | 60% (1.8) |

Attainment of Cos:

| Course Outcome | | Direct Attainment | Indirect Attainment | Overall Attainment | Observations |
|----------------|---|-------------------|---------------------|--------------------|--------------------------------------|
| CO1 | Outline the basic concepts of communication system, need of modulation and fundamental elements to realize amplitude modulation systems.. | 0.9 | 2.4 | 1.2 | Attainment target is not yet reached |
| CO2 | Interpret the generation and detection techniques of frequency modulated waves used for audio signal transmission systems. | 0.6 | 2.4 | 1 | Attainment target is not yet reached |
| CO3 | Illustrate the concept of pulse modulation schemes, demodulation, sampling, quantization and coding for obtaining of digital data | 0.9 | 2.4 | 1.2 | Attainment target is not yet reached |
| CO4 | Analyze digital pass band communication schemes (ASK, PSK, FSK) using modulation and demodulation process. | 0.9 | 2.4 | 1.2 | Attainment not yet reached |
| CO5 | Identify the importance of spread spectrum techniques for secured digital communication systems | 0.9 | 2.4 | 1.2 | Attainment not yet reached |
| CO6 | Build the block codes for error detection and error correction in noisy environment. | 1.6 | 2.4 | 1.8 | Attainment target reached |

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

CO1: Additional inputs will be provided on signals, fourier transforms, bandwidth and power calculations of amplitude modulated systems.

CO2: Giving assignments and conducting tutorials on frequency modulation, generation and detection.

CO3: Giving assignments and conducting tutorials on analog to digital conversion, sampling quantization and coding.

CO4: Conducting Guest lectures on probability of error for ASK, FSK, PSK.

CO5: Conducting Guest lectures on spread spectrum modulation, P-N sequence generation

Course Coordinator

Mentor

Dr. P. Ashok Balan, M.E. Ph.D
Professor & Head
Electronics & Communication Engineering
Institute of Aeronautical Engineering
Dundigal, Hyderabad- 500 043. T.S.