



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)  
Dundigal, Hyderabad - 500 043

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

Name of the Faculty:	Ms. N. Manjula	Department:	ECE
Regulation:	R18	Branch:	2018-2022
Course Name:	Information Theory and Coding	Course Code:	AECB48
Semester:	VIII	Target Value:	60% (1.8)

### Attainment of Cos:

Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1 Illustrate source and channel coding techniques for error-free transmission of message over a noisy communication channel.	0.9	2.0	1.1	Attainment target is not yet reached
CO2 Make use of linear and cyclic block codes for the performance analysis of error detection and correction in terms of efficiency.	0.9	2.0	1.1	Attainment target is not yet reached
CO3 Outline the various types of Convolutional codes for channel encoding processing data streaming.	0.9	1.9	1.1	Attainment target is not yet reached
CO4 Choose the Viterbi and turbo decoder algorithms for detection of the Convolutional code sequence in error controlling.	3.0	2.0	2.8	Attainment target reached
CO5 Relate the various source coding techniques and algorithms for text, audio and speech processing	0.9	2.0	1.1	Attainment target is not yet reached
CO6 Categorize the image and video formats and compression methods for data storage and compression.	0.9	2.0	1.1	Attainment target is not yet reached

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

- CO1: Additional inputs will be provided on source and channel coding techniques for error-free transmission  
CO2: Giving assignments and conducting tutorials on linear and cyclic block codes for the performance analysis of error detection and correction.  
CO3: Giving assignments and conducting tutorials on Convolutional codes for channel encoding processing data streaming..  
CO5: Conducting Guest lectures on source coding techniques and algorithms for text, audio and speech processing.  
CO6: Conducting Guest lectures on image and video formats and compression methods for real time applications.

*N. Manjula*  
Course Coordinator

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Mentor

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HOD  
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