



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)
Dundigal, Hyderabad - 500 043

ELECTRONICS AND COMMUNICATION ENGINEERING

ATTAINMENT OF COURSE OUTCOME- ACTION TAKEN REPORT

Name of the Faculty:	Dr. S. China Venkateswarlu	Department:	ECE
Regulation:	IARE-R16	Branch:	2016-200
Course Name:	Digital Signal Processing	Course Code:	AEC012
Semester:	VI	Target Value:	60% (1.8)

Attainment of Cos:

Course Outcome		Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Illustrate the realization of LTI systems using discrete time signals and systems	3	2.3	2.9	Attainment target reached
CO2	Construct the decimation-in-time and decimation-in-frequency fast fourier transforms for reducing computational complexity of DFT.	3	2.3	2.9	Attainment target reached
CO3	Implement FIR and IIR filters using digital filter transformation techniques.	0.9	2.3	1.2	Attainment target is not yet reached
CO4	Analyze the performance characteristics of IIR and FIR filters using MATLAB.	0.6	2.3	0.9	Attainment target is not yet reached
CO5	Interpret the multi rate signal processing methods for interfacing the digital systems with different sampling rates.	0.6	2.3	0.9	Attainment target is not reached
CO6	Examine errors in analog to digital conversion for tolerating finite word length effects.	1.3	2.3	1.5	Attainment target is not reached

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

In this course, the CO 3, CO 4, CO 5, and co 6 requires additional attention and it is improved by

1. Conducting guest lectures on FIR and IIR filters using digital filter transformation techniques and performance characteristics of IIR and FIR filters using MATLAB
2. Additional inputs will be provided on multi rate signal processing methods for interfacing the digital system with different sampling rates.
3. Giving assignments and conducting tutorials on errors in analog to digital conversion for tolerating finite word length effects.
4. Practice tests are conducted on FIR and IIR filter design.


Course Coordinator


Mentor


HOD
Head of the Department
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