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. M V Krishna Rao**	Department:	**ECE**
Regulation:	**UG20**	Branch:	**2020-2024**
Course Name:	**Probability theory and stochastic processes**	Course Code:	**AECC04**
Semester:	**III**	Target Value:	**60% (1.8)**

Attainment of Cos:

	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observations
CO1	Infer the concepts of the random experiment, event probability, joint event probability, and conditional event probability for proving the Bayes theorem and for computing complex event probabilities and independence of multiple events.	0.6	2.1	0.9	Attainment target is not yet reached
CO2	Explain the concept of random variable, the probability distribution function, probability density function and operations on single random variable to analytically derive the moments.	0.9	2.1	1.1	Attainment target is not yet reached
CO3	Develop joint distribution, density function, expectation operator and transformations for multiple random variables using the concept of single random variable.	0.9	2.1	1.1	Attainment target is not yet reached
CO4	Extend the random variable concept to random process and its sample functions for demonstrating the time domain and frequency domain characteristics.	1.3	2.1	1.5	Attainment target is not yet reached
CO5	Develop analytically the auto-power and cross- power spectral densities to solve the related problems of random processes using correlation functions and the Fourier transform.	0.6	2.1	0.9	Attainment target is not yet reached
CO6	Analyze the response of a linear time invariant (LTI) system driven by stationary random processes using the time domain and frequency domain description of random processes.	0.9	2.1	1.1	Attainment target is not yet reached

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

CO1: Giving assignments and conducting tutorials on the concepts of the random experiment, event probability, joint event probability, and conditional event probability for more practice.

CO2: Additional inputs will be provided on of random variable, the probability distribution function and probability density functions for improving student's performance.

CO3: Giving assignments and conducting tutorials on joint distribution, density function, and expectation operators.

CO4: Additional inputs will be provided on the concept of random variable for more practice

CO5: Giving assignments and conducting tutorials on auto-power and cross- power spectral densities for more practice

CO6: Conducting Guest lectures on the linear time invariant (LTI) system for improving student's performance.

Course Coordinator

Mentor

HOD

Head of the Department
Electronics and Communication Engineering
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