



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal, Hyderabad - 500043, Telangana

COMPUTER SCIENCE AND ENGINEERING (AI & ML)

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

Name of the faculty:	Dr. PARASA NAGALAKSHMI DEVI	Department:	Computer Science and Engineering (AI & ML)
Regulation:	IARE - R20	Batch:	2021-2025
Course Name:	Probabilistic Modeling and Reasoning	Course Code:	ACAC01
Semester:	III	Target Value:	60% (1.8)

Attainment of COs:


	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment	Observation
CO1	Calculate the singular value decomposition of a given matrix and principal components of a given covariance data matrix for reducing the dimensions	3.00	2.10	2.8	Attained
CO2	Apply moments, mean, variance, skewness and kurtosis of Gaussian distributions in the geometrical analysis of a data set which follows Gaussian distributions.	3.00	2.10	2.8	Attained
CO3	Make use of decision theory and estimation statistics, EM algorithm in finding maximum likelihood parameters of a statistical model.	3.00	2.20	2.8	Attained
CO4	Interpret the role of the log likelihood function and maximum likely hood estimate in determining the estimates of Binomial, Poisson, Normal distribution parameters.	3.00	2.10	2.8	Attained
CO5	Make use of Cramer-Rao Lower Bound in calculating minimum variance unbiased estimator.	0.60	2.10	0.9	Not Attained
CO6	Apply Bayesian laws, methods and approach in solving the inference problems and optimizing the information.	3.00	2.10	2.8	Attained

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

CO5: More assignments on Cramer-Rao Lower Bound in calculating minimum variance unbiased estimator.


Course Coordinator


Mentor


Head of the Department
Head of the Department
Artificial Intelligence & Machine Learning
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