GENERAL DEPARTMENT

GOVERNMENT ENGINEERING COLLEGE, DAHOD

B.E. 3rd SEM (COMP., ECE and Civil Engineering) - ODD SEMESTER: 2025-26 Subject: Probability & Statistics (BE03000251)

MID Semester Examination Syllabus

1	Basic Probability:	CO1
	Experiment, definition of probability, conditional probability, independent	
	events, Bayes' rule, Bernoulli trials, Random variables, discrete random	
	variable, probability mass function, continuous random variable, probability	
	density function, cumulative distribution function, properties of cumulative	
	distribution function.	
2	Basic Statistics:	CO3
	Measure of central tendency: Moments, Expectation, dispersion, skewness,	
	kurtosis, Linear Correlation, correlation coefficient, rank correlation	
	coefficient, Regression.	
3	Comp Cities had be accessed and a Comp Cities had been deal of land	COF
3	Curve fitting by the numerical method: Curve fitting by of method of least	CO5
	squares, fitting of straight lines, second degree parabola and more general	
	curves	
	Reference Books:	
	(1) P. G. Hoel, S. C. Port and C. J. Stone, Introduction to Probability Theory, Universal Book Stall.	
	(2) S. Ross, A First Course in Probability, 6th Ed., Pearson Education India.	
	(3) W. Feller, An Introduction to Probability Theory and its Applications, Vol. 1, Wiley.	
	(4) D. C. Montgomery and G. C. Runger, Applied Statistics and Probability for Engineers, Wiley.	
	(5) J. L. Devore, Probability and Statistics for Engineering and the Sciences, Cengage Learning.	
	(6) S.C. Gupta, V.K. Kapoor: Fundamentals of Basic Statistics, Sultan Chand & Sons, New Delhi.	

CO-1	Define the basic probability terminology and also can describe random Variables and their probability functions.
CO-3	Compute various statistical measures and further, calculate correlation and
	Regression coefficient.
CO-5	Apply the least square method for curve fitting.

CO	CO1	CO3	CO5	Total
Weightage	10	10	10	30

Bloom's Taxonomy level	R	U	A	N	E	С
As per GTU	7	28	35	0	0	0
Actual	-	-	-	0	0	0