

PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES

LESSON PLAN

Name:- Dr. Sanjeev Kumar

Subject Name: Probability & Statistics

Branch/ Semester:- 2nd Sem.

Subject Code:- BS-134A

Description of Topic	Lecture		Methodology	Target outcome
	Lecture no.	Lecture plan date		
UNIT 3: Mean and related problems on various methods	1	12/2/2024	Lecture Method	CO-1, CO-4
Median, Mode, and related problems	2	13/2/2024	Lecture Method	
Quartiles, Geometric mean, and related problems	3	14/2/2024	Lecture Method	
Harmonic mean, Range, and Quartile Deviation	4	15/2/2024	Lecture Method	
Mean Deviation and related problems	5	16/2/2024	Lecture Method	
Standard Deviation and related problems	6	19/2/2024	Lecture Method	
coefficient of variation, Skewness, and Kurtosis	7	20/2/2024	Lecture Method	
Moments	8	21/2/2024	Lecture Method	
Correlation, Coefficient of correlation	9	22/2/2024	Lecture Method	
Correlation, Coefficient of correlation cont.....	10	23/2/2024	Lecture Method	
Correlation, Coefficient of correlation cont.....	11	26/2/2024	Lecture Method	
Lines of regression	12	27/2/2024	Lecture Method	
Lines of regression Cont.....	13	28/2/2024	Lecture Method	
Rank correlation.	14	29/2/2024	Lecture Method	
Test of Unit 3	15	24/2/2024	Lecture Method	
UNIT 1: Introduction	16	1/3/2024	Lecture Method	
Additive law of probability	17	4/3/2024	Lecture Method	
Conditional Probability, Independent Events	18	5/3/2024	Lecture Method	
Bayes' Theorem	19	6/3/2024	Lecture Method	
Problems related to the above topics	20	7/3/2024	Lecture Method	
Discrete random variables, probability distribution	21	8/3/2024	Lecture Method	
Probability mass function and distribution function	22	11/3/2024	Lecture Method	
Expectation, Moments	23	12/3/2024	Lecture Method	
The variance of discrete random variables	24	13/3/2024	Lecture Method	
The standard deviation of discrete random variables	25	14/3/2024	Lecture Method	CO-1, CO-3
Test of Unit 1	26	15/3/2024	Lecture Method	
UNIT 2: Continuous random variables, the probability distribution	27	18/3/2024	Lecture Method	

Probability density function and distribution function	28	19/3/2024	Lecture Method	
Expectations and related problems	29	26/3/2024	Lecture Method	
Moments and related problems	30	27/3/2024	Lecture Method	
The variance of Continuous random variables & related problem	31	28/3/2024	Lecture Method	
The standard deviation of Continuous random variables & related problems	32	29/3/2024	Lecture Method	
Binomial Distribution, - evaluation of statistical parameters for the distributions, and related problems	33	2/5/2024	Lecture Method	
Poisson Distribution, - evaluation of statistical parameters for the distributions, and related problems	34	3/5/2024	Lecture Method	
Normal Distribution, - evaluation of statistical parameters for the distributions.	35	1/4/2024	Lecture Method	
Normal Distribution, - evaluation of statistical parameters for the distributions Contt....	36	2/4/2024	Lecture Method	
Normal Distribution, - problems	37	3/4/2024	Lecture Method	
Test of Unit 2	38	4/4/2024	Lecture Method	CO-1, CO- 5
UNIT 4: Curve fitting by the method of least squares: Fitting of a straight line	39	4/4/2024	Lecture Method	
Fitting of a straight-line Cont....	40	5/4/2024	Lecture Method	
Curve fitting by the method of least squares: Fitting of second and Higher degree	41	8/4/2024	Lecture Method	
Fitting of second- and Higher-degree Cont.....	42	9/4/2024	Lecture Method	
Fitting of a geometric or power curve of the form $y = ax^b$	43	10/4/2024	Lecture Method	
Fitting of an exponential curve of the form $y = ab^x$	44	11/4/2024	Lecture Method	
Test of significance: Basic terminology	45	12/4/2024	Lecture Method	
Large sample test for single proportion difference of proportions	46	15/4/2024	Lecture Method	
Large sample test for single proportion difference of proportions Contt...	47	16/4/2024	Lecture Method	
Test for single mean, the difference between means	48	17/4/2024	Lecture Method	
Test for difference between means	49	18/4/2024	Lecture Method	
Small samples test for a single mean, the difference in means	50	19/4/2024	Lecture Method	
Small samples test for a single mean, the difference in means	51	22/4/2024	Lecture Method	
Chi-square test for goodness of fit	52	23/4/2024	Lecture Method	
Test of Unit 4	53	24/4/2024	Lecture Method	