

PGDAV College Eve. (University of Delhi)

Lesson Plan

Teacher Name: Dr. Hari Pratap

Course & Semester: BA(Prog.), VI

Subject: Probability and Statistics

Department: Mathematics

Session: 2024-25

Week	Topics to be covered
1	Descriptive Statistics, Probability, and Discrete Probability Distributions Populations, Samples, Stem-and-leaf displays, Dot plots, Histograms
2	Qualitative data, Measures of location, Measures of variability, Boxplots
3	Sample spaces and events, Probability axioms and properties
4	Conditional probability, Bayes' theorem, and independent events
5	Discrete random variables & probability distributions, Expected values Binomial,
6	Geometric, Hypergeometric Negative binomial, Poisson, and Poisson distribution as a limit
7	Continuous random variables, Probability density functions Uniform distribution,
8	Cumulative distribution functions and expected values
9	The normal distribution
10	Exponential, and lognormal distributions
11	Sampling distribution and standard error of the sample mean, Central Limit Theorem, and applications
12	Scatterplot of bivariate data
13	Regression line using principle of least squares,
14	Estimation using the regression lines; Sample correlation coefficient and properties