


Department of Statistics
Course Outcomes

Class	Course	<i>After completion of these courses students will be able to;</i>
B.Sc. I	Paper- I. Descriptive Statistics-I	<ol style="list-style-type: none"> 1. Compute and interpret various measures of central tendencies like arithmetic mean, median, mode, quartiles. 2. Analyze and interpret data pertaining to attributes. 3. Compute various measures of dispersion, kurtosis and skewness. 4. Explain the minimal property of mean square deviation. 5. Understand concept of attributes and its use in real life situations. 6. Describes various scales of measurement.
	Paper II. Elementary Probability Theory	<ol style="list-style-type: none"> 1. Explain concept of experiment and random experiments. 2. Write down the sample space for the experiment and nature of experiment. 3. Construct Power set and any events of any experiment. 4. Explain the concept of union and intersection of any two events using Venn diagram. 5. Find probability of various events. 6. State the addition and multiplication theorem of probability concerning two or three events. 7. Describe the classical and axiomatic definition of probability of any event. 8. Explain Baye's theorem using examples. 9. Classify pairwise independence and mutual independence in respect to events.

B.Sc. I	Paper- III. Descriptive Statistics- II	<ol style="list-style-type: none"> 1. Explain concept of correlation with the help of scatter diagram. 2. Write down the effect of change of origin and scale on Karl Pearson's correlation coefficient. 3. Study relation between the correlation coefficient and regression coefficients. 4. Explain the concept of regressions and lines of regression. 5. Explain and interpret the partial regression coefficient. 6. Describe multiple and partial correlation coefficient with its properties.
B.Sc. I	Paper- IV. Discrete Probability Distributions	<ol style="list-style-type: none"> 1. Explain the concept of probability mass function, cumulative distribution function using examples. 2. Classify various functions into probability mass function. 3. Represent cumulative distribution function using graph. 4. Compute mean, median and mode for any probability mass function. 5. Write down the concept of moments of r.v. and its utility. 6. Describe mathematical expectation of a discrete random variable. 7. Define various types of probability distributions. 8. Evaluate mean and variance of various distributions using probability generating function.




PRINCIPAL
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