Department of Statistics
Programme Specific Outcomes (PSO): B.Sc. (Statistics)

After successful completion of 3 year degree program in Statistics students should be able to ;

PSO-1	Applying statistics in various walks of life.
PSO-2	Acquiring ability to apply various statistical tools to research problems.
PSO-3	Understanding how to collect, present, analyze and interpret the data and application of various distributions to real life situation
PSO-4	Acquiring ability to analyze the data by using MS-Excel and R-software

Course Outcomes: Department of Statistics

Class and Duration	Course	Course Outcomes	
B.Sc. I (CBCS) NEP 2.0 (2024-2025)	Paper I DSC-I (Descriptive Statistics- I)	CO-1	The students will acquire knowledge of meaning and scope of Statistics and various statistical organizations
		CO-2	The students will acquire knowledge of Population, sample and various methods of sampling,
		CO-3	The students will acquire knowledge of various measures of central tendencies and dispersion. moments, skewness and kurtosis
	Paper II DSC-II (Elementary Probability Theory)	CO-1	Students will be able to distinguish between random and non-random experiments
		CO-2	Students will be able to basic probability rules, including additive and multiplicative laws conditional probability and independence of events
		CO-3	Students understand the concept of conditional probability and independence of events
		CO-4	Students understand the concept of univariate random variable and probability distributions
	Paper III DSC-III (Statistical Methods)	CO-1	The students will acquire knowledge of the time series data and its analysis
		CO-2	The students will acquire knowledge of rates of vital events, its computation and interpretation
		CO-3	Students will acquire knowledge of how to compute and interpret index numbers, Cost of living index number and its utility.
	Paper IV DSC-IV (Discrete Probability Distributions)	CO-1	The students will acquire knowledge of one point, Two point and Bernoulli distribution.
		CO-2	The student will acquire knowledge of discrete uniform, Binomial and Hypergeometric distribution
		CO-3	The student will acquire knowledge of Poisson , Geometric and Negative binomial distribution and Applications of these distributions in real life situations

Course Outcomes: Department of Statistics			
Class and Duration	**Course**	**Course Outcomes**	
First Year of Other Faculty NEP 2.0 (2024-25)	Open Elective–I Basic Statistics Practical Paper-I	CO-1	The student will be able to apply sampling techniques in real life
		CO-2	The student will be able to perform classification and tabulation of primary data.
		CO-3	The student will be able to represent the data by means of simple diagrams and graphs.
		CO-4	The student will be able to summarize data by computing measures of central tendency.
	Open Elective–II Basic Statistics Practical Paper-II	CO-1	The student will be able to exhibit variation in data by computing measures of dispersion.
		CO-2	The student will be able to demonstrate and interpret correlation between two variables by using Scatter Plot
		CO-3	The student will be able to compute correlation coefficient between two variables and interpret the values of correlation coefficient.
		CO-4	The student will be able to obtain linear regression of dependent variable on independent variable and hence estimate value of dependent variable for given value of independent variable.

Course Outcomes: Department of Statistics			
Class and Duration	**Course**	**Course Outcomes**	
B.Sc. II (CBCS) NEP 1.0 (2024-25)	Paper V DSC-7C (Probability Distributions-I)	CO-1	The students will acquire knowledge of bivariate discrete distributions with real life situations.
		CO-2	The students will acquire knowledge of continuous random variable and find the various measures, probabilities using its probability distribution.
		CO-3	Students are understand transformation of univariate continuous random variable.
		CO-4	Students are studying some standard continuous probability distributions with real life situations
	Paper VI DSC-8C (Statistical Methods-I)	CO-1	Students are understanding concept of multiple linear regressions.
		CO-2	Students are understanding concept of multiple and partial correlation
		CO-3	The students will acquire knowledge of need, construction and utility of various index numbers.
		CO-4	Students know the concepts related to national income and different methods of estimation of national income.
	Paper VII DSC-7D (Probability Distributions-II)	CO-1	Students are studying some continuous probability distributions with real life situations.
		CO-2	Students are distinguishing between various distributions.
		CO-3	Students are finding various measures of continuous r. v.' s and probabilities.
		CO-4	Students understand the relations among different distributions and probability distributions of their transformations.
		CO-5	Students are studying chi-square, t and F distributions with applications.
	Paper VIII DSC-8D (Statistical Methods)	CO-1	Students know the concept and use of time series.
		CO-2	Students understand the meaning, purpose and use of statistical quality control and its applications.
		CO-3	Students are applying the small and large sample tests in various situations.

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