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 (2022-23) To (2023-2024)	Paper I DSC-7A (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 data and types of data, various data presenting methods, 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-8A (Elementary Probability Theory)	CO-1	Students will be able to distinguish between random and non-random experiments and acquire knowledge of probability and use the basic probability rules
		CO-2	Students will be able to understand concept of conditional probability and independence of events
		CO-3	Students understand the concept of conditional probability and independence of events
		CO-4	Students are distinguishing between univariate probability distributions
		CO-5	Students are acquire knowledge of mathematical expectation of univariate random variable

	Paper III DSC-7B (Descriptive Statistics- II)	CO-1	Students should be able to understanding the concept of correlation and correlation coefficient.
		CO-2	Students should be able to interpreting value of correlation coefficient and its use in regression analysis
		CO-3	Students will acquire knowledge of qualitative data including concept of independence and association between two attributes
		CO-4	Students will acquire knowledge of vital statistics and concept of mortality and fertility and growth rates.
	Paper IV DSC-8B Discrete Probability Distributions	CO-1	Students are understanding concept of bivariate distributions and related probabilities.
		CO-2	Student will be able to acquire knowledge of Mathematical expectation of bivariate discrete random variable
		CO-3	Students are applying standard discrete probability distributions with real life situations. Like Binomial, Hypergeometric, Poisson, Geometric etc.

Course Outcomes: Department of Statistics			
Class and Duration	**Course**	**Course Outcomes**	
B.Sc. II (CBCS) NEP (2023-24)	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.

(Dr. Supanekar S. R.)
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