

B.Sc STATISTICS

PROGRAMME SPECIFIC OUTCOMES

PSO1	Demonstrate the ability to apply fundamental concepts in exploratory data analysis.
PSO2	Design studies for obtaining data whilst avoiding common design flaws that incur bias, inefficiency and confounding.
PSO3	Demonstrate an understanding of the basic concepts of probability and random variables.
PSO4	Understand the concept of the sampling distribution of a statistic, and in particular describe the behaviour of the sample mean.
PSO5	Apply inferential methods relating to the means of Normal distributions.

COURSE OUTCOMES

PROGRAMME	PROGRAMME SPECIALIZATION	COURSES	OUTCOME
B.Sc	STATISTICS (CORE COURSE)	VST1B01- Basic Statistics and Probability	To understand various approaches to probability & compute probabilities.
		VST2B02- Bivariate Random Variable and Probability Distributions	To understand the applications of theoretical discrete distributions
		VST3B03- Statistical Estimation	To equip the students with the theory essential for estimation of unknown parameters
		VST4B04- Testing of Hypothesis	Identify a suitable test of significance to test a given hypothesis -large sample test/small sample test for testing different parameters
		VST5B05- Mathematical Methods in Statistics	To introduce the mathematical concepts required to learn theoretical statistics.
		VST5B06- Statistical Computing	To gain scientific and experimental skills of the students
		VST5B07- Sample surveys	To equip students with Sampling Techniques used in conducting sample surveys

		VST5B08- Operations Research and Statistical Quality Control	To provide an insight into quality assessment techniques
		VST6B09- Time Series and Index Numbers	To expose statistics students to the areas of time series and index numbers
		VST6B10- Design of Experiments	To discuss the analysis of data relating to agriculture, biological sciences and industry
		VST6B11- Population Studies and Actuarial Science	To impart basic concepts in population studies, actuarial science and vital statistics
		VST6B12- Linear Regression Analysis	Describe the concepts of correlation & regression and perform regression analysis for the given data
		VST6E01- Reliability Theory- Elective Paper	Compute reliability and life time or survival time of different real life systems
		ST5 D02- Economic Statistics- open course	To expose statistics students to the areas of time series and index numbers
B.Sc	MATHEMATICS/ COMPUTER SCIENCE (COMPLIMENTA RY COURSE)	VST1C01- Basic Statistics And Probability	To understand various approaches to probability & compute descriptive statistics of data
		VST2C02- Probability Distributions	To understand the applications of theoretical discrete & continuous distributions
		VST3C03- Statistical Inference	To equip the students with the theory essential for estimation of unknown parameters and testing of hypothesis
		VST4C04- Applied Statistics	To expose students to the areas of time series and index numbers, Statistical Quality control and Analysis of Variance
B.Sc	STATISTICS (COMPLIMENTA	VME1C01- Mathematical	To understand the students to identify statistical tools to solve

	RY COURSE)	Economics	economic problems
		VME2C02- Mathematical Economics	To expose statistical tools to students to solve economic problems
		VME3C03- Mathematical Economics	To equip the students to identify statistical tools to solve economic problems
		VME4C04- Mathematical Economics	To equip the students to identify statistical tools to solve economic problems