

## B.SC.STATICS COURSE OUTCOMES

S.No.	Course Code	Course Name	C.O. Number	Course Outcome
01.	STT 102	Mathematical Expectation and Probability Distributions	C.O.1	Students would be able to learn about Mathematical Expectation and its properties, Addition and multiplication theorems, Generating functions, Chebyshev and Cauchy-Schwartz inequalities.
			C.O.2	Students would be able to learn about Binomial and Poisson distribution, Central Moments and Poisson approximation to Binomial distribution.
			C.O.3	Students would be able to learn about Negative Binomial, Geometric, Hyper Geometric Distributions and their Properties.
			C.O.4	Students would be able to learn about Continuous distributions like Rectangular, Exponential, Gamma, Beta Distribution and their properties and applications.
			C.O.5	Students would be able to learn about Normal Distribution MGF, additive properties, interrelation between Normal And Binomial, Normal & Poisson Distribution, Cauchy Distribution.
02	STT 111	Statistical Methods	C.O.1	Students would be able to learn about the topic Correlation and Regression and their Properties and the relationship between two variable and Spearman's rank Correlation coefficients and their problems.
			C.O.2	Students would be able to learn Regression, Simple linear regression, Regression lines, Concepts of Correlation ratio, Partial and multiple correlation coefficients and their problems.
			C.O.3	Students would be able to learn Curve fitting by least square method, fitting of linear, quadratic, Exponential and power curves and their problems.
			C.O.4	Students would be able to learn ,Theory of Attributes, Nature and consistency , its conditions, independence and association of attributes, Coefficients of contingency and their problems
			C.O.5	Students would be able to know the concepts of population, parameter sampling, random sample, statistic, sampling distribution, standard error distribution, exact sampling distributions like Chi-square 't' & F-Distribution and their properties

S.No.	Course Code	Course Name	C.O. Number	Course Outcome
	S4-301	Statistical Interference	C.O.1	Students deals with the Estimation of a Parameter, by different methods of moments and maximum likelihood.
			C.O.2	Students would be able to learn the concepts of Hypothesis o f various distributions.
			C.O.3	Students deals with the concepts of Large Sample Tests of Single and double samples.
			C.O.4	Students would be able to understand the concepts of small Sample Tests, of Significance based on, Chi-Square, t & F-test etc.,
			C.O.5	Students would be able to understand the techniques of Non-Parametric tests, Median and Two sample Sign test.
S.No.	Course Code	Course Name	C.O. Number	Course Outcome
	S5-301	Sampling Techniques and Design of Experiments	C.O.1	Students would be able to know about the sampling methods and different types of sampling methods, and types of sampling.
			C.O.2	Students would be able to know about Simple Random Sampling methods and estimation of population mean, variance in SRSWR & SRSWOR.
			C.O.3	Students would be able to know about the Stratified Random Sampling, Systematic Sampling.
			C.O.4	Students would be able to know about Analysis of Variance technique,One way & two way classification.
			C.O.5	Students would be able to know the Design of Experiments and concept of factorial Experiment.
S.No.	Course Code	Course Name	C.O. Number	Course Outcome
	S5-302	Quality and Reliability	C.O.1	Students would be able to learn about Importance of Statistical Quality Control , uses of control charts, control limits, Natural Tolerance limits in Industry.
			C.O.2	Students would be able to understand the construction of control charts for variables and attributes and to draw conclusions and interpret the result.
			C.O.3	The students can acquire the knowledge in the field where the risks is avoided in Sample lots.
			C.O.4	Students can understand different types of Sampling, Single and Double by using this unit. They can access the different types of sampling in Sampling plans.
			C.O.5	Students can understand how the Reliability depends up on company's Manufacturing department; It shows the Quality and Reliability of the products.

S.No.	Course Code	Course Name	C.O. Number	Course Outcome
	S6-301	Applied Statistics	C.O.1	Students would be able to learn about time series and its components, determination of Trend by Least Squares, Moving Averages methods and to determine seasonal indices by Ratio to trend and link relative methods.
C.O.2			Students would be able to know the function and Process of Index Numbers, Simple and Weighted Index Numbers.	
C.O.3			Students would be able to know the Official Statistics, concepts, functions and organization of CSO and NSSO . Agricultural, are, yield of statistics, national income and its computation.	
C.O.4			Students would be able to know about the definition, uses of Vital Statistics, Various mortality and fertility rates, life tables and its construction and uses.	
C.O.5			Students would e able to know about different types of Reproduction of life tables.	
S.No.	Course Code	Course Name	C.O. Number	Course Outcome
	S6-302	Operations Research Cluster-1	C.O.1	Students would be able to learn about how to make Decision Analysis in their Real time.
C.O.2			Students would be able to learn how to solve Simplex method, Two phase simplex method easily.	
C.O.3			Students would be able to learn how to the Transportation Problems.	
C.O.4			Students would be able to learn solving of Assignment Problems, unbalance assignment problems, travelling salesman problems	
C.O.5			Students would be able to know the function and Process of Sequencing problems.	