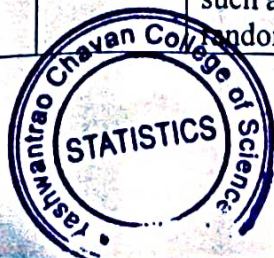


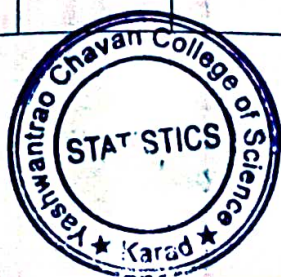
**Yashwantrao Chavan College of Science, Karad**  
**Department of Statistics**

**CO's for B.Sc.III Statistics**

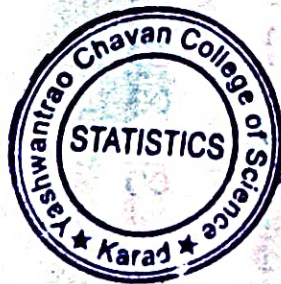
Course code	Course Name	Course Outcome	
		Upon successful completion of the course, students will be able to:	
DSE-E13	Probability Distributions	CO1	Acquire knowledge of important univariate, bivariate, multivariate distributions
		CO2	Evaluate Truncated Distributions.
		CO3	Illustrate various measures on the distributions.
		CO4	Acumen to apply standard continuous probability distributions to different situations.
DSE-E14	Statistical Inference-I	CO1	Knowledge about important inferential aspect of point estimation.
		CO2	Concept of random sample from a distribution, sampling distribution of a statistic.
		CO3	knowledge of various important properties of estimator and inference of parameters of standard discrete and continuous distributions.
		CO4	Illustrate Fisher information and CR inequality.
		CO5	Knowledge of different methods of estimation.
DSE-E15	Sampling Theory	CO1	Basic knowledge of complete enumeration and sample, sampling frame sampling distribution, sampling and non-sampling errors, principle steps in sample surveys, sample size determination, limitations of sampling etc.
		CO2	Concept of various sampling methods such as simple random sampling stratified random sampling, systematic sampling



			and cluster sampling and their comparison.
		CO3	An idea of conducting sample surveys and selecting appropriate sampling techniques.
		CO4	Knowledge of ratio and regression estimators.
DSE-E16:	R-Programming and Quality Management	CO1	Importance of R- programming.
		CO2	Knowledge of identifiers and operators also illustration of conditional statements and Loops used in R.
		CO3	Knowledge of quality tools used also process and product control used in Quality management.
DSF-F13	Probability Theory and Applications	CO1	Knowledge about order statistics and associated distributions
		CO2	Concept of convergence and Chebychev's inequality and its uses
		CO3	Concept of law large numbers and central limit theorem and its uses.
		CO4	Knowledge of terms involved in reliability theory as well as concepts and measures.
DSF-F14	Statistical Inference-II	CO1	Illustration of interval estimation.
		CO2	Knowledge of important aspect of test of hypothesis and associated concept.
		CO3	Concept about parametric and non-parametric methods.
		CO4	Knowledge of some important parametric as well as non-parametric tests.
DSF-F15	Design of Experiments	CO1	Knowledge of basic terms used in design of experiments.



		CO2	Concept of one-way and two-way analysis of variance.
		CO3	Knowledge of various designs of experiments such as CRD, RBD, LSD and factorial experiments.
		CO4	Illustration of appropriate experimental design to analyze the experimental data.
DSF-F16	Operations Research	CO1	Knowledge of solving LPP by graphical and Simplex method.
		CO2	Knowledge of Transportation, Assignment and Sequencing problems.
		CO3	Concept of queuing theory.
		CO4	Knowledge of simulation technique and Monte Carlo technique of simulation.



*Soul*

**HEAD**  
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 Yashwantrao Chavan College of Science,  
 Karad