Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Statistics

CO's for Third Year UG
For AY June 2020 Onwards..
Revised as per CBCS

Course Title	Course Outcomes
Probability Distributions	1) knowledge of important univariate distributions such as Laplace, Cauchy, Lognormal, Weibull, Logistic, Pareto, Power Series Distribution. 2) knowledge of Multinomial and Bivariate Normal Distribution. 3) knowledge of Truncated Distributions. 4) information of various measures of these probability distributions. 5) acumen to apply standard continuous probability distributions to different situations.
Statistical Inference-I	1) knowledge about important inferential aspect of point estimation. 2) concept of random sample from a distribution, sampling distribution of a statistic, standard error of important estimates such as mean and proportions. 3) knowledge of various important properties of estimator, 4) knowledge about inference of parameters of standard discrete and continuous distributions. 5) concept of Fisher information and CR inequality. 6) knowledge of different methods of estimation.
Design of Experiments	1) knowledge of basic terms used in design of experiments. 2) concept of one-way and two-way analysis of variance. 3) knowledge of various designs of experiments such as CRD, RBD, LSD and factorial experiments. 4) knowledge of using an appropriate experimental design to analyze the experimental data.
R-Programming and Quality Management	1) importance of R- programming 2) knowledge of identifiers and operators used in R. 3) knowledge of conditional statements and Loops used in R. 4) knowledge of quality tools used in Quality management. 5) knowledge of process and product control used in Quality management.

Probability Theory and Applications	1) knowledge about order statistics and associated distributions 2) concept of convergence and Chebychev's inequality and its uses 3) concept of law large numbers and central limit theorem and its uses. 4) knowledge of terms involved in reliability theory as well as concepts and measures.
Statistical Inference-II	1) concept of interval estimation. 2) knowledge of interval estimation of mean, variance and population proportion. 3) knowledge of important aspect of test of hypothesis and associated concept. 4) concept about parametric and non-parametric methods. 5) Knowledge of some important parametric as well as non–parametric tests.
Sampling Theory	a1 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. 2) concept of various sampling methods such as simple random sampling, stratified random sampling, systematic sampling and cluster sampling. 3) an idea of conducting sample surveys and selecting appropriate sampling techniques. 4) knowledge of comparing various sampling techniques. 5) knowledge of ratio and regression estimators.
Operations Research and Decision Theory	1) Concept of Linear programming problem. 2) Knowledge of solving LPP by graphical and Simplex method. 3) Knowledge of Transportation, Assignment and Sequencing problems. 4) Concept of queuing theory. 5) Knowledge of simulation technique and Monte Carlo technique of simulation.

Head

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