

SARDAR PATEL UNIVERSITY
Programme: B.Com.
Semester: II
Syllabus with Effect From: November/December-2018

Paper Code: UB02DCOM36	Total Credit:3
Title Of Paper: Advanced Statistics - IV	

Objective: The objectives will be to achieve a deep understanding of particular statistical methods and to learn to use some advanced tools for analyzing and developing statistical methods.

Unit	Description of Detail	Weighting (%)
I	Sampling Methods Concept of survey and sample survey, Characteristic of good sample. The importance of size of a sample. Meaning of sampling (with replacement and without replacement). Method of sampling- Simple random sampling and its simple numerical example up to 3 strata.	25%
II	Analysis Of Variance Definition Of ANOVA, uses of ANOVA, only one- way classification.	25%
III	Probability Distribution-1 Concept of probability mass function and probability density function: Binomial Distribution, Poisson distribution, Mean and Variance, application and its properties of these distribution without proof. and simple examples based on these distributions.	25%
IV	Probability Distribution-2 Normal Distribution, Mean and variance, application, properties of Normal Distribution (without proof) and simple examples based on this distributions.	25%

Basic Text & Reference Books:-

- **S. C. Gupta and V. K. Kapoor:** Fundamental Of applied statistics Sultan Chand and sons, New Delhi.
- **D. S. Sancheti and V. K. Kapoor: Statistics:** Theory, Method and Application, Sultan Chand and Sons.
- **Goon, Gupta, Dasgupta:** An outline of Statistical Theory, Vol:1 and 2 World Press, Calcutta.