

SARDAR PATEL UNIVERSITY
BBA (GENERAL) SEMISTER: IV
PAPER CODE: UM04DBBA22

TITLE OF PAPER: STATISTICS FOR MANEGMENT - II

(TOTAL CREDIT: 3)

Objectives: (1) To enhance analytical ability in students for processing data
(2) To familiarize students with applications of Statistical techniques in business decision Making .

UNIT	DESCREPTION IN DETAIL	WEIGHTAGE (%)
1	Sampling (Theory Only) (a) Terminology :Population ,Sample, Parameter, Statistics (b) Characteristics of ideal sample (c) Population Survey V/s Sample Survey (d) Concept of Sampling errors and Non-Sampling Errors (e) Sampling Methods: Procedure, Merits, Demerits :Simple Random Sampling, Stratified random Sampling, Systematic Sampling , Cluster Sampling	25
2	Probability (a) Terminology: Event , Sample space, Mutually exclusive , equally likely, exhaustive , joint, dependent, independent events (b) Definitions : Mathematical , Statistical and Axiomatic (c) Additional and multiplication rules of probability for two and three events respectively (d) Mathematical Expectation: Meaning and properties. Examples on $E(x)$; $V(x)$	25
3	Probability Distributions (a) Meaning and importance of probablity distributions (b) Binomial, Poisson, Normal distribution: Meaning, Conditions, pdf , properties and uses.	25
4	Statistical Quality Control (SQC) (a) Meaning , Importance's and Principles of SQC (b) Charts for variables (Mean and Range chart) (c) Charts for Attributes (p, np & c charts)	25

References:

- D. C Sancheti & V K Kapoor: Statistics (Theory, Methods and Applications) Sultan Chand Publication, New Delhi
- S C Gupta: Fundamentals of Statistics, Himalaya Publishing House
- Prof. H R Vyas and Others, Business Statistics, B S Shah Prakashan
- R P Hooda: Statistics for Business and Economics, Mac Millian Publication, New Delhi