SARDAR PATEL UNIVERSITY

BCOM SEMISTER: IV

PAPER CODE: UB04CCOM33

TITLE OF PAPER: BUSINESS MATHEMATICS & STATISTICS – IV (TOTAL CREDIT: 3) Syllabus with effect with: NOVEMBER-2019

Objectives: (1) To enhance analytical ability in students for processing data

(2) To familiarize students with applications of Statistical techniques in business decision Making.

		WEIGHTAGE
UNIT	DESCREIPTION IN DETAIL	(%)
1	Sampling (Theory Only)	25
	(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	
2	Probability	25
	(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); $V(x)$	
3	Probability Distributions	25
	(a) Meaning and importance of probability distributions	
	(b) Binomial, Poisson, Normal distribution: Meaning, Conditions, pdf,	
	properties and uses.	
4	Statistical Quality Control (S.Q.C)	25
	(a) Meaning, Importance's and Principles of SQC	
	(b) Charts for variables (Mean and Range chart)	
	(c) Charts for Attributes (p, np & c charts)	

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