

SARDAR PATEL UNIVERSITY

BBA (GENERAL)

SEMISTER: III

PAPER CODE: UM03DBBA22

TITLE OF PAPER: STATISTICS FOR MANEGMENT - I

(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	Measures of Central tendency and dispersion (a) Data Collection: Variables, Constants, Attributes, primary & secondary data and their sources, Data Presentation, formation of frequency distribution (b) Measures of central tendency: Mean, Median, Mode, Quartiles, Deciles, Percentiles, Combined Mean (c) Measures of Dispersion: Meaning of Range, Quartiles Deviation, Standard Deviation, Variance, Coefficient of Variance (CV)	25
2	Correlation: (a) Introduction and meaning, interpretation and types of correlation, (b) Method to study Correlation: Scatter Diagram, Karl Pearson's Product Moment Methods, Spearman's Rank correlation (c) Properties of Correlation and Example based on Probable Error	25
3	Regression (a) Introduction and meaning (b) Regression Lines, Regression Coefficients, Regression Equations (c) Properties of Regression	25
4	Time series Analysis (a) Meaning, importance and components (b) Methods to study trend: Free hand curve, Moving average (3,4,5 yearly), Least square method(Linear Trend) (c) Seasonal indices by Simple average method	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

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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	DESCRIPTION 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 probability 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