

SARDAR PATEL UNIVERSITY

BCOM SEMISTER: III

PAPER CODE: UB 03 CCOM 23

TITLE OF PAPER: BUSINESS MATHEMATICS & STATISTICS – III
(TOTAL CREDIT: 3) Syllabus with effect from: JUNE-2020

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- 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	Index Numbers (a) Introduction and Meaning and Importance of Index Numbers. (b) Construction of wholesale Price Index Number (c) Time Reversal Test and Factors Reversal Test (d) Cost of Living Index Number.	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