

**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-2019**

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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.

<b>UNIT</b>	<b>DESCREPTION IN DETAIL</b>	<b>WEIGHTAGE (%)</b>
<b>1</b>	<b>Measures of Central tendency and dispersion</b> (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)	<b>25</b>
<b>2</b>	<b>Correlation:</b> (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	<b>25</b>
<b>3</b>	<b>Regression</b> (a) Introduction and meaning (b) Regression Lines, Regression Coefficients, Regression Equations (c) Properties of Regression	<b>25</b>
<b>4</b>	<b>Index Numbers</b> (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.	<b>25</b>

**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