

**SES's L.S. RAHEJA COLLEGE OF ARTS AND COMMERCE  
(AUTONOMOUS)**



**BOARD OF STUDIES: Mathematics, Statistics and Computer  
PROGRAMME: B.COM (COST AND MANAGEMENT ACCOUNTING)  
SEMESTER: II  
NOMENCLATURE OF THE COURSE: Business Statistics  
NEP Vertical: Open Elective  
Credit: 2**

(As Per Choice Based Credit System (under NEP 2020) with effect from the Academic Year 2025-26)



Programme:	B. Com (Cost & Management Accounting)
Nomenclature of the Course:	Business Statistics
Total Marks	50
Semester:	II
Academic year	2025-2026

**LEARNING OBJECTIVES:**

1. To provide an overview to the students with the basic concepts involved in Statistics.
2. To apply the basics of Statistical skills which are imperative in Economics and Management.
3. To take well-informed decisions in predictable and uncertain situations.

**COURSE OUTCOMES:**

1. To understand the various issues involved in the collection, analysis and arriving at conclusive Decisions regarding quantitative data.
2. To understand and appreciate the practical relevance of various basic statistical tools in the Field of finance and economics.

Unit	Course Content	Andragogy	No of Lectures
I	<p>a. Descriptive Statistics:</p> <p>I) Measures of Central Tendency: Definition of Average, Types of Averages: Arithmetic Mean, Combined and Weighted arithmetic mean, median, and Mode for raw data, Ungrouped frequency, distribution, grouped frequency distribution. Quartiles, Deciles and Percentiles.</p> <p>II) Measures of Dispersions: Concept of dispersion. Absolute and relative measures of dispersion, Range, Quartile Deviation, Mean Deviation, Standard Deviation and corresponding coefficients. Combined Standard deviation.</p> <p>Use of Excel solving problems</p>	Classroom sessions with computational thinking.	15
II	<p>Correlation and regression:</p> <p>I) Correlation: Concept of correlation, positive and negative correlation, Karl Pearson's Coefficient of Correlation</p> <p>II) Regression: meaning of regression, two regression equations, Regression coefficients and properties</p> <p>III) Probability Theory</p>	Classroom sessions with computational thinking.	15

	<p>Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events.</p> <p>i. Classical definition of Probability, Addition theorem (without proof), conditional probability.</p> <p>ii. Independence of Events: <math>P(A \cap B) = P(A)P(B)</math>. Simple examples</p> <p>iii. Bayes Theorem</p>		
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Reference Books:

1. Statistics for management Richard Levin, David S. Rubin, Sanjay Rastogi /Masooos Husain siddiqui. Pearson.
2. M. P. Chaudhary, Advanced Applied Mathematics, Piyush Book Publication Pvt. Ltd. New Delhi, India, 2003.ISBN:81-86548-64-5.
3. Introduction to Probability and Statistics for Engineers and Scientists by Sheldon M. Ross
4. Operations Research - An Introduction - By Hamdy A. Taha
5. Introduction to Operations Research by Frederick S. Hillier, Gerald J. Lieberman and Bodhibrata Nag

**QUESTION PAPER PATTERN**

<p><b>Details of Internal Continuous Assessment (ICA)</b>  <b>Internal Marks: 20</b></p> <ul style="list-style-type: none"> <li>• 1 Internal Test of 10 marks will be conducted.</li> <li>• 1 Assignment of 10 Marks will be given.</li> </ul>	
<p><b>Term End Examination Question Paper Pattern Total Marks: 30</b></p> <p>Q1 Answer any <b>three</b> out of the following Four questions (based on Module I)      5*3=15</p> <p>Q2 Answer any <b>three</b> out of the following Four questions (Based on Module II)      5*3=15</p>	