

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



Syllabus of Statistics under NEP 2020 Vertical (OE) with effect from 2024-25

Programme: Bachelor of Arts in Multimedia and Mass Communication

Department of Mathematics, Statistics and Computer

HoD/Sr. Person of the Department: Dr. Seema Ukidve

Date of approval by the BoS: 24/04/2024

Approved by the Academic Council: 29/04/2024

Approved by the Governing Body: 06/05/2024



Program: Bachelor of Arts in Multimedia and Mass Communication				Semester: I	
Course: Statistics Academic Year: 2024-2025 Batch: 2024-2027				Code:UGBAMMCIOE324	
Teaching Scheme				Evaluation Scheme	
Lectures	Practicals	Tutorials	Credits	Internal Continuous Assessment (ICA) (weightage)	Term End Examination (TEE) (weightage)
30	Nil	Nil	2	20	30
Internal Component					
Class Test (Duration 30 Mins)			Presentation		Class Participation
10			5		5
Learning Objectives:					
<ol style="list-style-type: none"> 1. To introduce the technique of data collection and its presentation. 2. To emphasize the need for numerical summary measures for data analysis. 					
Course Outcomes:					
<ul style="list-style-type: none"> • Possess knowledge of the various summary measures of location (averages) used for data analysis and the basis of their selection. • Acquire the skill to select appropriate methods to present data. • Be able to select and calculate appropriate averages to represent data sets. • Hold the knowledge to select and calculate appropriate measures of dispersion for data sets. • Gain the knowledge about the use of statistical tools to carry out elementary categorical data analysis. 					
Pedagogy: The objective of the course is to encourage students to learn and appreciate the use of the various tools of Statistics with regard to scientific management in businesses.					
Hence,					
<ul style="list-style-type: none"> • Adaptive teaching methods. • To invoke Computational thinking in problem solving. • Classroom session with applications in MS-excel in Lecture. • Students would be given project/field work for better understanding of the concepts. 					

Detailed Syllabus: (per session plan) Session Outline for Statistics
Each lecture session would be of one hour duration (30 Sessions)

Module	Module Content	Module Wise Pedagogy Used	Module Wise Duration
I	<p>Introduction and Descriptive Statistics:</p> <p>Descriptive Statistics:</p> <p>I) Measures of Central Tendency: De function 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>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>	Classroom sessions with computational thinking	7+8
II	<p>Use of excel in solving problems.</p> <p>Data Collection and Types of Data: Population and Sample, Types of Sampling, Scale of Measurement, Sources of Data Methods of Data Collection, Types of Data.</p> <p>Case study</p>	Classroom sessions with computational thinking	7+8

Reference Books:

1. Goon A.M., Gupta M.K., Dasgupta B. Fundamentals of Statistics, Volume I, The World Press Private Limited, Calcutta. Fifth edition.
2. Kothari, C.R.: Research Methodology, Methods and Techniques, Wiley Eastern Limited. First Edition.
3. Shah R.J.: Descriptive Statistics, Seth Publications. Eighth edition.
4. Spiegel, M.R.: Theory and Problems of Statistics, Schaum's Publishing Series. Tata McGraw-Hill. First edition.
5. Welling, Khandeparkar, Pawar, Naralkar : Descriptive Statistics : Manan Prakashan.
6. M. P. Chaudhary , *Advanced Applied Mathematics*, Piyush Book Publication Pvt. Ltd. New Delhi, India, **2003**. ISBN:81-86548-64-5

QUESTION PAPER PATTERN

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