SES'S L. S. RAHEJA COLLEGE OF ARTS AND COMMERCE

(AUTONOMOUS)



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

Programme: B.Com (Banking and Insurance)
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: B. Com (Banking and Insurance) Course: Business Statistics					Semester: II Code: UGBBIIIOE124			
	emic Year: 20		Batch: 202	24-2027				
Teaching	Scheme	Eval	Evaluation Scheme					
Lectures	Practicals	Tutorials	Credits		al Continuous ment (ICA) tage)		Term End Examination (TEE) (weightage)	
30	Nil	Nil	2		20		30	
Inter	nal Compone	nt						
	-							
Class	Class Test (Duration 30 Mins)		Pr	Presentation		Class Participation		
10			5		5		;	
•	Management To take well-	-informed deci		-				
	rning Outcom		students woul	d be able.				
•	-				ection, a	nalysis	and arriving at	
		ecisions rega	• •					
•		d and appreci Field of financ	-		of vario	us basic	e statistical	
Peda	agogy:							
•	1	ching methods						
•		omputational tession with ap	• •		-	Lecture	A Students	
-		ven project/fie	-					
	-	-				-		

Module	Module Content	Module Wise Pedagogy Used	Module Wise Duratio n
I	 a. Descriptive Statistics: 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. II) Measures of Dispersions: Concept of dispersion. Absolute and relative measures of dispersion, Range, Quartile Deviation, Mean Deviation, Weighted arithmetic mean, and Rame, Deviation, Mean Deviation, Rame, Ra	Classroom sessions with	7+8
	Standard Deviation and corresponding coefficients. Combined Standard deviation. Use of Excel solving problems	computational thinking.	
	Correlation and regression:I) Correlation: Concept of correlation, positive		
	and negative correlation, Karl Pearson's Coefficient of Correlation		
	II) Regression: meaning of regression, two		
П	regression equations, Regression coefficients and properties	Classroom sessions with	
	 III) Probability Theory 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. 	computational thinking.	7+8
	 Classical definition of Probability, Addition theorem (without proof), conditional probability. 		

ii) Independence of Events: $P(A \cap B) = P(A)$	
P(B). Simple examples	
iii) Bayes Theorem	

Reference Books:

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

QUESTION PAPER PATTERN

Details of Internal Continuous Assessment (ICA) Internal Marks: 20 • 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