KRANTIGURU SHYAMJI KRUSHNA VERMA KACHCHH UNIVERSITY

FACULTY OF SOCIAL SCIENCE AND HUMANITIES (DOE)

Programme	Bachelor of Arts	Branch/Spec.	BA **Statistics**
Semester	IV (Four)	Version/Pattern	NEP 2020
Effective from Academic Year	2023-24	Effective for the batch Admitted in	2025-26
Subject Code	MNST - 401	Subject Name	**BASICS OF STATISTICS**

Teaching scheme						Examination scheme (Marks)			
Per week	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	4	-	-		4	Theory	50	50	100
Hours	4	-	-	-	4	Practical	-	-	-

Pre-requisites:

- The learners should have basic understanding of data with minimal prior statistical knowledge.

Learning Outcome:

- After successfully completing this course, the student will have basic knowledge of various measures of dispersion and skewness and will be able to analyse and interpret its results. Also the students should be well equipped to apply statistical reasoning and methodologies to the real life problems and contributes to evidence based practices in their respective fields.

Theory Syllabus

Unit	Content	Hours
1	**Measures of Dispersion** ➢ Meaning and Characteristics of Dispersion. ➢ Concept of Absolute and Relative Measures. ➢ Meaning, Advantages and Disadvantages of Range, Quartile Deviation, Average Deviation and Standard Deviation. ➢ Related Examples.	**15**
2	**Measures of Skewness** ➢ Meaning and Types of Skewness. ➢ Concept of Absolute and Relative Measures. ➢ Obtaining Measures of Skewness and its Coefficients by Method of Karl Pearson and Bowley. ➢ Related Examples.	**15**
3	**Permutation** ➢ Meaning and Formula. ➢ Permutations of Different Things. ➢ Permutations of Similar Things. ➢ Circular Permutation. ➢ Related Examples.	**15**
4	**Combination** ➢ Meaning and Formula. ➢ Combination of things taken some or all at a time. ➢ Some Restricted Combinations. ➢ Related Examples.	**15**

Reference (APA Style)

1 **Mathematics** by Jaggi & Mathur, Sultan Chand & Sons, New Delhi.
2 **Business Statistics** by J. K. Sharma, Pearson India Pvt Ltd, Chennai.
3 **Statistical Methods** by S. P. Gupta, Sultan Chand & Sons, New Delhi.
4 **Programmed Statistics** by B. L. Agarwal, New Age Int. Publishers, New Delhi.
5 **Business Mathematics & Statistics** by Saha & Sarkar, Himalaya Publishing House, Mumbai.

MODE OF EVALUATION:

Evaluation will be divided in two parts.

- Internal: Internal Evaluation of 50 marks will be decided by the department of colleges or Institutes as per the instruction given by the University from time to time.

- External: Semester end Examination will be conducted by the University for 50 Marks.

The Demonstrative Structure of the University Question Paper is as follows.

Question No.	Question Type	Unit	Marks
1	Short Questions: Attempt any 2 Questions out of 4 (5 marks for each)	**I**	**10**
2	Short Questions: Attempt any 2 Questions out of 4 (5 marks for each)	**II**	**10**
3	Short Questions: Attempt any 2 Questions out of 4 (5 marks for each)	**III**	**10**
4	Short Questions: Attempt any 2 Questions out of 4 (5 marks for each)	**IV**	**10**
5	Either Objective Type Questions: Like MCQ, True False, Fill in the blanks, Make matching, Definition, One-line answer etc. Attempt any 10 out of 12 (1 mark for each) Or Very Short Type Questions: Attempt any 5 out of 8 (2 mark for each)	**I to IV**	**10**
Total			**50**

The above Question paper format is only for demonstration not exhaustive. An examiner may modify this, as and when required.