KRANTIGURU SHYAMJI KRUSHNA VERMA KACHCHH UNIVERSITY

FACULTY OF SOCIAL SCIENCE AND HUMANITIES (DOE)

Programme	Bachelor of Arts	Branch/Spec.	BA **Statistics**
Semester	III (Three)	Version/Pattern	NEP 2020
Effective from Academic Year	2023-24	Effective for the batch Admitted in	2025-26
Subject Code	MDST - 301	Subject Name	**BASICS OF STATISTICS**

Teaching scheme					
Per week	Lecture (DT)		Practical (Lab.)		Total
	L	TU	P	TW	
Credit	4	-	-		4
Hours	4	-	-	-	4

Examination scheme (Marks)			
	CE	SEE	Total
Theory	50	50	100
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 an enough understanding of sample, population and Various sampling methods. Learner will have basic knowledge of tool requires for analysing the probability and its distributions. Also students will be mentally well prepared to apply statistical reasoning and methodologies to relevant questions.

Theory Syllabus

Unit	Content	Hours
1	**Sampling Methods** ➢ Meaning of Population and Sample. ➢ Population Inquiry and Sample Inquiry. ➢ Need of Sampling and Size of a Sample. ➢ Characteristics of a good Sample. ➢ Methods for Sampling. ➢ Simple Examples.	15
2	**Probability** ➢ Introduction and Basic Terminology. ➢ Events and its Types. ➢ Mathematical Definition and Law of Addition. ➢ Conditional Probability and Law of Multiplication. ➢ Related Examples.	15
3	**Binomial Distribution** ➢ Introduction. ➢ Properties and Uses. ➢ Related Examples.	15
4	**Poisson Distribution** ➢ Introduction. ➢ Properties and Uses. ➢ Related Examples.	15

Reference (APA Style)

1. **Business Statistics** by J. K. Sharma, Pearson India Pvt Ltd, Chennai.
2. **Statistical Methods** by S. P. Gupta, Sultan Chand & Sons, New Delhi.
3. **Business Statistics** by S. C. Gupta, Himalaya Publishing House, Mumbai.
4. **Programmed Statistics** by B. L. Agarwal, New Age Int. Publishers, New Delhi.
5. **Comprehensive Statistical Methods** by Arora's, S. Chand & Co. Ltd, New Delhi.

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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.