



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Social Sciences, Humanities and Arts
Choice Based Credit System (CBCS) in Light of NEP-2020
B.A. Economics
Semester IV (2023-2026)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
VUECO201	SEC	Advance Statistical Inference	00	00	00	60	40	0	2	4	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives:

- CEO1: To develop in- depth understanding of sampling.
- CEO2: To develop understanding of attributes.
- CEO3: To make the students understand the concepts data distribution.
- CEO4: To demonstrate the concept of correlation and regression.
- CEO5: To make the students understand the concept of Index.

Course Outcomes:

- Students shall be able to:
- CO1: Comprehend the concept of Sampling.
 - CO2: Illustrate the association of attributes.
 - CO3: Explain various features of data collected.
 - CO4: Summarize correlation and regression.
 - CO5: Critically evaluate statistical Indices.

Contents

UNIT I: Sampling and its Uses

Sample, Errors in Surveys, Size of a Sample, Types : Simple Random Sampling, Systematic Sampling, Stratified Sampling, Cluster Sampling.

UNIT II: Association of Attributes

Concept, Class Frequency, Consistency of Data, Inconsistency of Data, Association of Attributes, Coefficient of Association. Yule's Coefficient of Association


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UNIT III: Skewness, Moments, and Kurtosis

Meaning of Skewness; Meaning of Moments; Meaning of Kurtosis; Measure and Types of Kurtoses.

UNIT IV: Correlation and Regression Analysis

Karl Pearson's Coefficient of Correlation; Spearman Rank Correlation; Meaning of Regression analysis; Calculation of Regression Equations using Least Square Method.

UNIT V: Index Numbers

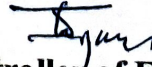
Definition, Methods of Construction of Index Numbers, Laspeyre and Paasche Methods, Weighted Diagram, Fixed Base Method, Average Base Method, Chain Based Method.


Suggested Readings:

1. Gupta, S. P., Gupta, M. P. (2021). *Business Statistics*. New Delhi: Sultan Chand & Sons
2. Shukla, S.S., Sahay, S. P. (2019). *Statistical Analysis*. Agra: Sahitya Bhawan Publications
3. Gupta, S. P. (2019). *Statistical Methods*. New Delhi: Sultan Chand & Sons


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