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INTER DISCIPLINARY COURSE- Department of STATISTICS (2022-2024)

ELECTIVE COURSE (OPEN ELECTIVE) SEMESTER-II IDC: BASIC STATISTICS AND DATA ANALYSIS- 3 CH

Objective: To understand the concept of Basic Statistics and Data Analysis for processing and imparting knowledge tools to analyze sets of data to gain useful business understanding.

CO-1 Remember and understand the basic concepts/Principles of Basic Statistics and Data Analysis

CO-2 Analyze the Various Concepts to understand them through case studies

CO-3 Apply the knowledge in understanding practical problems

CO-4 Execute/Create the Project or field assignment as per the knowledge gained in the course

Unit-I

Definition - Scope and limitations of Statistics - Collection of data - Census. Sampling surveys - Classification and tabulation - diagrammatic and graphical representation of data - Nominal, ordinal and interval scaling.

Unit-II

Measures of central tendency - Measures of dispersion and Coefficient of variation - Problems based on raw data and grouped data - Moments - raw and central - Measures of skewness - Measures of Kurtosis and their applications.

Unit-III

Basics of Curve fitting: Meaning and types; Principle of least squares - linear, nonlinear, exponential and growth curves.

Unit-IV

Test of relationship: Meaning of Correlation and type: Simple and Rank Correlation; Regression analysis - Problems based on raw data and grouped data.

Books Recommended:

1. Bansilal and Arora (1989). New Mathematical Statistics, Satya Prakashan, New Delhi.

 Gupta, S.C. & Kapoor, V.K. (2002) . Fundamentals of Mathematical Statistics , Sultan Chand & Sons Pvt. Ltd. New Delhi.

3. Goon A.M. Gupta, A.K. & Das Gupta, B (1987) . Fundamentals of Statistics, Vol.2, World Press Pvt. Ltd., Calcutta.

4. Kapoor, J.N. & Saxena, H.C. (1976). Mathematical Statistics, Sultan Chand and Sons Pvt. Ltd, New Delhi.

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