

Syllabus of B.COM. LL.B. (Hons.) 2023-24 Batch
COURSE-5.5 BUSINESS STATISTICS

Objectives

..... applications in business data processing and would enable them to be effective generators of business data and information. Conceptual, analytical and computational skills are learnt in the process.

UNIT – I:

Introduction to Statistics: Origin and development, definition, importance and scope of business statistics; meaning and definition of data - methods of data collection; questionnaire, schedule and interview methods.

Classification and Tabulation of Data:

Classification – definition, objectives and types of classification; **Tabulation:** Definition and objectives; difference between classification and tabulation; parts of table; types of tables

Diagrammatic and Graphical Representation: Introduction, significance of diagrams and graphs, difference between diagrams and graphs. Diagram: Types of diagrams – One Dimensional or Bar Diagrams. Two Dimensional or area diagrams, pictograms and cartograms; Graphs: Graphs of Frequency distribution - Histogram, Frequency Polygon, Frequency Curve, Ogives or Cumulative Frequency curves and Line Graphs.

UNIT -II:

Measures of Central Tendency or Averages: Definition and objectives of averages; requisites of ideal averages; Types of averages – Mean, Median, Mode, Harmonic Mean, Geometric Mean – Definition Computation, Merits and Demerits; Application in Business.

UNIT – III:

Measures of Dispersion: Measures of Dispersion: Introduction, Definition, Properties of Ideal Measure of Dispersion, Absolute and Relative Measures of Dispersion – Range and Coefficient of Range Quartile and Co-efficient of Q.D, Average Deviation (AD) and Coefficient of S.D and Co-efficient of Variation, Merit and Demerits - Applications in Business

UNIT – IV:

Correlation and Regression: Correlation - definition, types and methods of correlation; Graphical method, scatter diagram method; Karl Pearson's Coefficient of Correlation; Spearman's Rank Correlation Co-efficient; properties of correlation co-efficient; Regression: definition and uses; difference between correlation and regression, regression equation – X on Y and Y on X; construction regression equations.

Index Numbers: Definition, types uses and steps involved in construction of Index numbers; Laspeyre's, Paasche's, Fisher's, Dorbish and Bowley's and Marshall Edgeworth Index Numbers; tests of adequacy of index numbers – time reversal test and factor reversal test; Consumer Price Index Number –definition, uses and methods of construction of Consumer Price Index Number.

Prescribed Books:

- 1.. S. C. Gupta, Fundamentals of Statistics, HPH, New Delhi.
2. S. P. Gupta, Statistical Methods, Sultan Chand & Sons, New Delhi.

Reference Books

1. Levine, Business Statistics – A First Course, Pearson Education, New Delhi.
2. M L Berenson and David M Levine, Basic Business Statistics, PHI, New Delhi.