JYOTI NIVAS COLLEGE AUTONOMOUS

Programme: B.COM / LSCM/ INTEGRATED B.COM M.COM

QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS –I

Course Code : 24IIIQA02

Semester: III

No. of Hours: 60

No. of Credits: 4

COURSE OBJECTIVES:

- On successful completion of the course, the Students will be able to understand the basics of Quantitative analysis.
- Demonstrate the skill of Collecting Quantitative Data and utilizing it for Presentations and analysis.
- Demonstrate the skills to use the tools and techniques of data analysis for Business decisions.
- Understand the development and use of Quantitative Techniques for Business decisions.

LEARNING OUTCOMES:

- Enables the students to use the knowledge in decision making.
- Understand the practical application of statistics
- Usage of Index number in day to day life
- Application and usage of graph

Unit-1: Introduction to Statistics **10 hours**

Introduction- Meaning, Functions, Uses and Limitations of Statistics;
Collection of Data –Sources of Data; Methods of Data Collection; Technique of data collection- Census and Sampling Techniques- Methods of Sampling (Concepts). Difference between statistics and analytics.

Unit- 2: Classification and Tabulation of Data **10 hours**

Classification: Meaning, objectives and methods of classification of data, Tabulation: Meaning, Parts of a Table – Simple problems on Tabulation; Graphical representation of median and mode - Histogram, smoothed frequency curve, frequency polygon and Ogives.

Unit-3: Measures of Central Tendency **14 hours**

Measures of Central Tendency: Calculation of Arithmetic Mean, Median and Mode for Individual, Discrete and Continuous Series- Problems

Unit- 4: Measures of Dispersion and Skewness **14 hours**

Measures of Dispersion: Meaning, Absolute and Relative measures of dispersion – Range, Mean Deviation, Standard Deviation - Problems on the above in Individual, Discrete and Continuous Series.
Measures of Skewness: Meaning of Skewness - Tests of Skewness, Measures of Skewness Calculation of Karl Pearson's Co-efficient of Skewness only- Problems

Unit- 5: Index Numbers **12 hours**

Meaning, Uses, Classification, Construction of Index Numbers; Methods of constructing Index Numbers – Simple Aggregate Method, Simple Average of Price Relatives Method, Weighted Index numbers, Fisher's Ideal Index (including Time and Factor Reversal tests);

Consumer Price Index –Problems

Skill Development Activities:

- Draw a blank table showing different attributes
- Draw a Pie chart with imaginary figures
- Select 05 components of CPI and collect base year quantity, base year price, and current year price and calculate Consumer Price Index.
- Suggest the best average to be used for the following studies
  a. Average size of shoes
  b. Average rainfall per day
  c. Average wages of employees
  d. Average share price

Books for References:

1. S P Gupta: Statistical Methods- Sultan Chand, Delhi
2. Dr. B N Gupta: Statistics, Sahityta Bhavan, Agra.
3. R.S Bhardwaj: Business Statistics, Excel Books
4. S C Gupta, Statistical Methods
5. Chikkodi and Sathyaprasad, Quantitative Analysis for Business decisions
6. Sancheti and Kapoor, Statistical Methods and Techniques

Note: Latest edition of text books maybe used