

BACHELOR OF COMMERCE - THIRD SEMESTER
QUANTITATIVE TECHNIQUES-I

Code: SC3.6

Contact Hours: 56

Credits: 4

Univ Code:

Work load: **4 hours per week**

Evaluation: Continuous Internal Assessment – **30 Marks**
Semester-End Examination – **70 Marks**

Objectives: To equip the students with necessary statistical tools to analyse the business performance to take appropriate decisions.

Pedagogy: Combination of lectures, seminars, assignments, etc.

Module 1: Introduction – origin, meaning, definition, statistics as data, statistics as methods, objective of statistics, functions of statistics, application of statistics in various fields and limitations of statistics, primary data and secondary data.

Module 2: Classifications and Tabulation - Meaning of classification, objectives of classification, rules of classification, Types of classification, types of series, preparation of frequency distribution and bi-variate distribution, tabulation of data, meaning, objects, rules for tabulation, types of tables.

Module 3: Diagrammatic and Graphical Representation - Introduction, types of diagrams, one-dimensional, two-dimensional, three-dimensional, bar diagrams, multiple bar diagram, rectangles, squares, construction of graphs, general rules, difference between diagram and graphs, histogram, frequency polygon, frequency curve, ogives(less than and more than methods).

Module 4: Measures of Central Tendency (Averages) - Meaning, definition, types of averages, arithmetic mean, weighted arithmetic average, Geometric Mean, Harmonic Mean, Median, Quartiles and Mode, Merits and Demerits (Theory and Problems). **Measures of Dispersion** - Definition, concepts of variation, purpose of measuring variation, methods of measuring variation, Range, Inter-quartile deviation, mean deviation, Coefficient of Mean deviation, computation of mean deviation, Standard Deviation, Computation of standard deviation (Theory and problems).

Module 5: Skewness: Meaning, definition, measures of Skewness, Karl Pearson's Co-efficient of Skewness, Bowley's co-efficient of skewness (Theory and problems).

Recommended Books

1. Statistical Methods - S.P. Gupta
2. Fundamentals of Statistics - S.C. Gupta
3. Business Statistics - Pillai and Bhagawathi