Course objectives:
Upon completion of this course, students are expected to be able to:

1. Develop an understanding of the selected Mathematical and Statistical concepts as well as their application in the situations encountered in business and commerce and to develop competency in fundamental arithmetic through practical applications.
2. Get background of Statistical Methods required for other courses in business, economics and commerce.
3. Obtain basic skills in using Statistical Computer Packages to assist in performing necessary computations required in statistical analysis through practical applications.

Mathematics

Equations, Inequalities and System of Simultaneous equations:

Sequence, Series and Progression:

Matrix Algebra:

Differentiation:

Mathematics of Finance:

Statistics

Introduction:

Data Summarization:

Measures of Central Tendency:
Idea of Average and Types of Averages.Need and use of Median, Quartile, Decile, Percentile, Mode, and Geometric Mean in business situations.Empirical relation between Mean, Median and Mode.Computer Based calculation of these averages.

Measures of Dispersion:

Index Number:
Definition and its types(Price and Quantity index, Weighted and unweighted Aggregate index) with their application

Simple Regression and Simple Correlation:

Basic Probability Theory:

Random variable and Probability Distributions:

Recommended Books:

Further Readings: