# *Statistical Analysis*

## Course Objectives

This course is designed to provide a basic understanding and application of statistical techniques. The course introduces the participants two statistical packages – SPSS and EViews. The course will enable the participants to handle the statistical problems by using the statistical packages.

## Course Contents

1. Introduction to Statistics
2. Collection of Data
3. Presentation of Data
4. Measures of Central Tendency and Locations
5. Measures of Dispersion and Shape
6. Basic Probability
7. Discrete Probability Distributions
8. Continuous Probability Distributions
9. Sampling and Sampling Distributions
10. Point and Interval Estimations
11. Hypothesis Building and Testing
12. Covariance and Correlation Analysis
13. Simple Linear Regression Analysis
14. Index Numbers

## Recommended Book

Waheed, A. (2022). *Statistical Analysis in Business and Economics.* Royal Book Company

## Reference Books

1. Hussain, S. M. A. (2011). *Tools of Statistical Analysis.* Kifayat Academy Educational Publisher.
2. Keller, G., and Warrack (2000). *Statistics for Management and Economics*. Duxbury.
3. Weiss, N. A. (1995). *Introductory Statistics*. Addison-Wesly Publishing Company, Inc.

**Note:**

1. Duration of course will be 10 weeks.

2. Total 10 lectures of two hours duration will be delivered.

3. Class time will be from 7:00 pm to 9:00 pm, once a week.

4. Atleast 75% attendance is required to get a certificate