

# Syllabus

## PANJAB UNIVERSITY

### BBAS 102 : Business Statistics

**Objective :** *To enable the students to acquire knowledge of statistics. At the end of this course, the students should have understood Statistical tools and their applications.*

#### UNIT – I

Definition, Functions, Scope and Limitations of Statistics.

Measures of Central Tendency : Types of Averages – Arithmetic Mean (Simple and Weighted), Median and Mode.

Measures of Dispersion : Range, Quartile Deviation, Mean Deviation, Standard Deviation and Coefficient of Variation.

Simple Correlation : Meaning, Types, Karl Pearsons Correlation, Rank Correlation.

Simple Regression.

#### UNIT – II

Probability Theory : Addition and Multiplication Theorems, Probability Distribution : Binominal, Poisson and Normal.

Index Numbers : Meaning and Importance, Methods of Construction of Index Numbers : Weighted and Unweighted ; Simple Aggregative Method, Simple Average of Price Relative Methods, Weighted Index Method : Laspeyres Method, Pasches Method and Fisher's Ideal Method including Time and Factor Reversal Tests, Consumer Price Index.

Time Series Analysis : Components, Estimation of Trends (Graphical Method, Semi Average Method, Moving Averages Method and Method of Least Squares for Linear Path).