Name of the course	**Business Statistics-II**
Course Code	BSTAT-102
Semester	VI
Credit Hours	3
Prerequisite	**-**
Learning outcomes	On completion of this course, the students will be able to: 1. Understand statistics and data handling in statistic 2. Understand presenting data in statistics. 3. Understand the basic statistics techniques
Contents	**Unit-1 Introduction to Statistics & Data Collection** 1.1 Understanding data types and summarizing as well 1.2 Types of variables: quantitative, categorical, nominal, ordinal & Exercises **Unit-2 Presenting Data in Tables and Charts** 2.1 Tables and graphs for categorical variables 2.2 Summary table, bar charts, pie charts, pareto chart, exercises, table and graph for bi-variate categorical variables, exercises 2.3 Organizing numerical data 2.4 Ordered array, stem n leaf display, Exercises **Unit-3 Table and Charts for Numerical Data** 3.1 The Frequency Distribution, relative frequency distribution and percentage distribution, cumulative distribution, histograms, polygon, cumulative percentage polygon. 3.2 Table and graph for bi-variate numerical variables. 3.3 Contingency table, scatter plots and time series plot.

	3 .4 Measures of central tendency 3.5 Numerical descriptive measure for population 3.6 Quartiles and box plots 3.7 Covariance and coefficient of correlation 3.8 Basic probability concepts 3.9 Discrete Probability Distribution 3.10 Variance and standard deviation
Teaching & Learning Strategies	A combination of lecturing, presentations, and discussions will be used to conduct the course. Students will be expected to read extensively ahead of each class session and actively participate in discussions and practical work.
Assignment	Written assignment (10 marks), presentation (5 marks) and Quiz (10 marks)
Suggested Readings	Chaudhry, S.M., & Kamal, S. (2010) *Introduction to statistical theory* (Part I). Ilmi Kitab Khana. Keller, G. (2015). *Statistics for management and economics: Abbreviated*. Cengage Learning. Spiegel, M. R., & Stephens, L.J. (1984) *Statistics.* McGraw Hill Book Company. Thomas, G. B., Weir, M. D., Hass, J., Giordano, F. R., & Korkmaz, R. (2010). *Thomas' calculus*. Pearson. Walpole, R. E. (1981). *Introduction to statistics* (2nd ed.). Little Brown & Company

Assessment and Examinations

Sr. #	Elements		Details	Conducting Body
1	Midterm Assessment		Written test (at the mid-point of the semester)	College
2	Formative Assessment		Assignment, presentation and quiz	College
3	Final Assessment		Written test (at the end of the semester)	The University of Punjab, Lahore.