Program	BS Business Education
Semester	4th
Credit Hours	3
Pre-requisite	None
Course Title	Business Statistics BSBE 303
Introduction	The main objectives of the course are to enhance students" competency in application of statistics to solve business management problems and to improve their level of quantitative sophistication for further advanced business analysis.
Learning Outcome	At the conclusion of this course, the student will be able to: 1. Data description and data presentation in a business environment; 2. Measures of Central Tendency 3. Measure of Relative Dispersion 4. Use of index numbers 5. Basic probability concepts and probability distributions as an aid to business decision making.
Course Content	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

	3.10Variance and standard deviation
References	Chaudhry, S.M., & Kamal, S. (2010) *Introduction to statistical theory* (PartI). Ilmi Kitab Khana. Keller, G. (2015). *Statistics for management and economics: Abbreviated*. Cengage Learning. Spiegel, M. R., & Stephens, L.J. (1984) *Statistics*. McGraw Hill BookCompany. 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
Teaching/ Learning Strategies	Lecture Multimedia presentations Cooperative Learning Non creditor workshops and seminars. Active Learning

Evaluation Criteria	Course Evaluation
	        Sessional 25
	        Mid Semester Test 35
	        Final Test 40
	        Total 100