

<b>Name of the course</b>	<b>Business Statistics</b>
<b>Course Code</b>	202
<b>Semester</b>	III
<b>Credit Hours</b>	3
<b>Prerequisite</b>	-
<b>Learning outcomes</b>	- -
<b>Contents</b>	<p><b>Unit-1 Introduction to Statistics &amp; Data Collection</b></p> <p>1.1 Understanding data types and summarizing as well</p> <p>1.2 Types of variables: quantitative, categorical, nominal, ordinal &amp; Exercises</p> <p><b>Unit-2 Presenting Data in Tables and Charts</b></p> <p>2.1 Tables and graphs for categorical variables</p> <p>2.2 Summary table, bar charts, pie charts, pareto chart, exercises, table and graph for bi-variate categorical variables, exercises</p> <p>2.3 Organizing numerical data</p> <p>2.4 Ordered array, stem n leaf display, Exercises</p> <p><b>Unit-3 Table and Charts for Numerical Data</b></p> <p>3.1 The Frequency Distribution, relative frequency distribution and percentage distribution, cumulative distribution, histograms, polygon, cumulative percentage polygon.</p> <p>3.2 Table and graph for bi-variate numerical variables.</p> <p>3.3 Contingency table, scatter plots and time series plot.</p> <p>3.4 Measures of central tendency</p> <p>3.5 Numerical descriptive measure for population</p> <p>3.6 Quartiles and box plots</p> <p>3.7 Covariance and coefficient of correlation</p> <p>3.8 Basic probability concepts</p> <p>3.9 Discrete Probability Distribution</p> <p>3.10 Variance and standard deviation</p>
<b>Teaching &amp; Learning Strategies</b>	A combination of lecturing, computer lab, 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.

<b>Assignment</b>	Written assignment (10 marks), presentation (5 marks) and Quiz (10 marks)
<b>Suggested Readings</b>	<p>Chaudhry, S.M., &amp; Kamal, S. (2010) <i>Introduction to statistical theory</i> (Part I). Ilmi Kitab Khana.</p> <p>Keller, G. (2015). <i>Statistics for management and economics: Abbreviated</i>. Cengage Learning.</p> <p>Spiegel, M. R., &amp; Stephens, L.J. (1984) <i>Statistics</i>. McGraw Hill Book Company.</p> <p>Thomas, G. B., Weir, M. D., Hass, J., Giordano, F. R., &amp; Korkmaz, R. (2010). <i>Thomas' calculus</i>. Pearson.</p> <p>Walpole, R. E. (1981). <i>Introduction to statistics</i> (2<sup>nd</sup> ed.). Little Brown &amp; Company</p>

### Assessment and Examinations

Sr. #	Elements	Weightage	Details
1	Midterm Assessment	35%	Written test (at the mid-point of the semester)
2	Formative Assessment	25%	Assignment, presentation and quiz
3	Final Assessment	40%	Written test (at the end of the semester)