

Module Code:	STAT-309
Module Title:	<ul style="list-style-type: none"> Statistical Computer Packages 2 Credit Hours (Paper: Theory & Practical equal marks)
Name of Scheme:	BS Statistics

Course Outline

Introduction to Computer and Windows, Introduction to SPSS, Starting SPSS, How to exit from SPSS, Different windows in SPSS, Data Entry in SPSS: Defining a variable, Entering data, Saving data file, Defining Value Labels, Computing frequencies, Computing the new variables, Selection of cases, Defining Date Variable, Defining weights variable, Recoding and categorizing the existing variables, Categorizing the variables, Ranking the cases, Defining the missing values, Replacing the missing values, Creating a time series, Exploring the variable.

Finding descriptive statistics, Editing Output., Cross tabulation and measures of association, Entering a Cross-tabulated data, Graphs for variables and cross-tabulated variables, Merging and Splitting files, Bar Chart, Pie Chart, Histogram, and Histogram.

Box plot, P-P plot, Q-Q plot, One sample t-test, Independent Samples t-test, Paired samples t-test, Parametric statistical inference (one sample, Two sample, More than two sample).

Scatter Diagram, Correlation, Partial Correlation, and Regression Analysis: Simple and Multiple regressions, Non-Parametric Tests, Test of inference about proportions (one & several), Computing probability distribution and distribution functions.

Recommended Books:

1. Discovering Statistics by using SPSS. 3rd ed. Any Field.
2. Ho, Robert (2006), Handbook of Univariate and Multivariate Data Analysis and Interpretation with SPSS, Chapman and Hall/CRC.
3. Kirkpatrick, L.A. and Feeney, B.C. (2001), A Simple Guide to SPSS for Windows, Wadsworth: Thompson Learning.
4. George, D. and Mallery, P. (1999), SPSS for Windows: Step by Step, Allyn and Bacon.
5. Brace, N., Kemp, R. and Snelgar, R. (2003), SPSS for Psychologists: 2nd Edition, Palgrave and Macmillan.
6. Statistics for researchers.