

## TEACHING PLAN FOR STATISTICAL SOFTWARE PACKAGE

Course: STATISTICAL SOFTWARE PACKAGE (SKILL ENHANCEMENT COURSE, SEC)

Credit:02

Unit	Topic	Readings	No. of Practical
1. Getting started with the Software	Introduction: Data Entry, Storing and Retrieving Files, Generating New Variables; Managing Data - Listing cases, replacing missing values, computing new variables, recoding variables, selecting cases, sorting cases, merging files, Graphs - Creating and editing graphs and charts; Descriptive Statistics Procedures: Frequencies, Descriptive, Explore, Cross Tabulation.	Performing Data Analysis using IBM SPSS, Lawrence S. Meyers, Glenn C. Gamst, A. J. Guarino	Approx. 5
2. Hypothesis Testing for Means	T-tests: One sample test, Independent samples and paired samples t-test; ANOVA - One-way analysis of variance with post hoc analysis Two-way analysis of variance.	SPSS for Windows Step by Step A Simple Guide and Reference, Darren George and Paul Malley	Approx. 6
3. Testing for Association between Variables	Chi-square Test of Independence; Bivariate Correlation Analysis: Simple Scatter Plot; Correlation Coefficient: Pearson, Spearman Rho and Kendall Tau Coefficient. Factor analysis.	SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech	Approx. 6
4. Regression Analysis	Linear Regression: Simple Linear Regression, Multiple regression analysis with matrix scatterplot. Multiple Regression: Standard (Enter) and Stepwise Method. Binary Logistic Regression.	SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech	Approx. 6

### Recommended Readings

1. Performing Data Analysis using IBM SPSS, Lawrence S. Meyers, Glenn C. Gamst, A. J. Guarino, Wiley Publication
2. SPSS for Windows Step by Step A Simple Guide and Reference, Darren George and Paul Malley
3. SPSS in Simple Steps, Kiran Pandya, Smruti Bulsari, Sanjay Sinha, Dreamtech

### Suggestive Readings

Using SPSS in research, Dr. Radha Mohan, Neelkamal

### Examination Scheme and Mode

Examination scheme and mode will be as per the guidelines notified by the University of Delhi

**TEACHER: DR. DEEPIKA KUMARI**