

## **STATISTICAL PACKAGE FOR DATA ANALYSIS**

**Course Code: SWSPDA**

**Credits: 2 (30 hours)**

### **Course Learning Outcome:**

Students will be able to understand the basic concepts of SPSS software in the area of Descriptive and Bivariate Analysis.

### **COURSE OUTLINE**

#### **MODULE 1 : INTRODUCTION AND BASICS (5 HOURS)**

Introduction: opening a data file and viewing its contents, creating new variables and entering data, measurement levels of variables, Creating and editing a data file, Reading output, Editing output, printing results

#### **MODULE 2 : MANIPULATING DATA (5 HOURS)**

Listing cases, replacing missing values, computing new variables, recoding variables, exploring data ,selecting cases, sorting cases, merging files, Creating grouped variable from a continuous Variable, Weighting

#### **MODULE 3 : DESCRIPTIVE ANALYSIS - UNIVARIATE (7 HOURS)**

Describing a continuous variable: measures of central tendency and dispersion; histogram, Describing a categorical variable: frequency table; bar chart

#### **MODULE 4 : BIVARIATE ANALYSIS (7 HOURS)**

Contingency tables: Describing the association between two categorical variables; Correlation coefficients: Describing the association between two continuous variables, drawing a scatter plot: Visualizing the association between two continuous variables

#### **MODULE 5 : WRITING RESULTS OF DATA ANALYSIS (6 HOURS)**

Summarizing the information by selecting and reporting the main features, describing and comparing data, identifying significance and trends in factual information, giving overview of the important trends/patterns in the data.

## **REFERENCES**

Abu-Bader, S. H. (2006). Using Statistical Methods in Social Work Practice: A Complete SPSS Guide. Chicago: Lyceum Books.