Social Statistics-II CH: 03 Prerequisite: NA

Learning Objectives:

After successful completion of this course, the student will be able to:

1. understand the processes that cause population change;
2. interpret essential demographic measures;
3. understand hypothesis testing; and
4. critically evaluate the data and methods used by social scientists.

Contents:

1. **Correlation and Regression**
   1.1. Introduction to scatter gram
   1.2. Pearson r
   1.3.Correlation matrix
   1.4. Introduction to Regression Analysis

2. **Introduction to Inferential Statistics**
   2.1. Probability sampling: basic concepts
   2.2.EPSEM sampling techniques
   2.3.The sampling distribution \

3. **Estimation**
   3.1.Point Estimation
   3.2. Interval Estimation
   3.3.Confidence Intervals and Procedure for Testing of Hypotheses

4. **Tests of Significance**
   4.1. Z test
   4.2.t test
   4.3.The Analysis of Variance (ANOVA)

5. **Non-Parametric Tests**
   5.1.Chi Square

6. SPSS
   6.1.Techniques to get data into the Data Editor of SPSS
   6.2.Selection of Variables for Analysis
   6.3.Manual Output of Statistical Procedures
   6.4.Implementation of Statistical Procedures
   6.5.Results and Reports generation under SPSS

Teaching-Learning Strategies:

Teaching will combine class lectures, class discussions, and group work.

Sessional Work:

The sessional work will combine written assignments, class quizzes, presentations, and class participation/attendance.

Assessments and Examination:

Sr. No.	Elements	Weightage	Details
1.	Midterm Assessment	35%	It is a written examination that takes place at the mid-point of the semester.
2.	Formative Assessment	25%	It is a continuous assessment. It includes variety of activities mentioned above.
3.	Final Assessment	40%	It is a written examination that takes place at the end of the semester.

Suggested Readings

1. Healey, Joseph F. (2012). Statistics: A tool for Social Research. 9th ed. Belmont: Wadsworth (E-Book)
2. Levin, Jack, and Fox, James A. 2006. Elementary statistics in social Research. 10th Ed. India Pearson Education.