Institute of Social & Cultural Studies
Faculty of Behavioral & Social Sciences
University of the Punjab, Lahore
Course Outline

Programme	BS Demography	Course Code	DEM211	Credit Hours	3
Course Title	Social Statistics				

Course objectives:

At the end of this course, students should be able to:

    i.   understand the basic statistical vocabulary;

    ii.   identify and explicate the basic statistical concepts of frequency tables, graphs, measure of central tendency and dispersion;

    iii.   understand different reports, research articles that uses basic descriptive statistics;

    iv.   develop an understanding for univaraite analysis; and

    v.   develop an understanding for bi-variate analysis

Content:

1. Introduction

- Elementary mathematical concepts and notions
- Meaning and Definition of Social Statistics
- Use of Statistics in Modern Sociology

- Grouped and Un-grouped Data
- Statistics: Descriptive and Inductive
- Measurement: Nominal, Ordinal and Interval scales
- Frequency Distribution: Tabular Organization and Graphic Presentation of Data

2. Measures of Centrality and Location

- Mean, Median and Mode

- Percentiles, Deciles and Quartiles

3. Measures of Dispersion

- Range

- Mean Deviation

- Standard Deviation

- Variance

- Quartile Deviation

4. Introduction to Bivariate Association
- Contingency tables
- Measures of Association
- Nominal measures

- Ordinal measures
- Interval/ratio measures
- Correlation and Regression

5. The Normal Distribution

- Form of the normal Curve
- Area under the Normal Curve

2. Probability
- Basic concepts
- Rules of Probability
- Binomial Probabilities

Teaching-Learning Strategies:

Teaching will be a combination of class lectures, class discussions, and group work. Short videos/films will be shown on occasion.

Assignments:

The sessional work will be a combination of written assignments, class quizzes, presentations, and class participation/attendance.

Assessments and Examination:

Sessional Work: 25 marks

Midterm Exam: 35 marks

Final Exam: 40 marks

Recommended Books

- Levin, J., & Fox, J. A. (2006). Elementary Statistics in Social Research. Tenth Edition. Pearson Education, Inc.

- Healey, Joseph F. (2002). Statistics: A tool for Social Research. 6th ed. Belmont: Wadworth / Thomson Learning.

- Blalock, H. M. (1988). Social Statistics. 2nd ed. London: McGraw-Hill. Ltd. (International Students Edition)

- Boniface, D. R. (1995). Experiment Design and Statistical Methods. For Behavioral and Social Research, London: Chapman & Hall.

- Cramer, D. (1994). Introducing Statistics for Social Research. Step-by-Step Calculations and Computer Techniques Using SPSS. London: Routledge

- Elifson, K. W. (1998). Fundamentals of Social Statistics. Third Edition. New York: McGraw Hill Book Co.