# School of Humanities and Social Sciences Department of Sociology SC432 Social Statistics 2019 Spring Semester

(L2-T1-P0-CH3-CR3)

Course Instructor: Sumesh S.S.

## Course Objective:

This paper offers an introduction to quantitative sociology with special emphasis on methods and social statistics to collect and analyse the quantifiable aspects of social reality. It will familiarize the students with the basic aim of research which involves generalizations and theory building. Quantifying social phenomena helps the researcher collect and analyse data systematically with suitable methods with a view to drawing inferences.

## **Pre-requisites**

SC 412 Research Methodology

### Course Outline:

#### Unit 1

Statistics in social research, meaning, scope and limitations of statistics in social science research, presenting and summarising data

#### Unit 2

Measures of Central Tendency: Mean, Median, Mode, Measures of Dispersion: Standard/Quartile Deviation, Co-relational Analysis: Tests of significance and covariance Regression analysis, Methods of hypothesis testing: chi-squired test, t-test and z-test

#### Unit 3

Methods and use of macro-statistics and secondary sources, Application of Computers in Social Research, SPSS.

#### Course Plan

Contact Hours	Topics
1	Introduction to the course
2	Social Statistics- Introduction
3	Scope and limitations of statistics in social science research
4	Limitations of statistics in social science research
5	Presenting data
6	Summarising data
7	Measures of Central Tendency: Mean
8	Measures of Central Tendency: Mean
9	Measures of Central Tendency: Median

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10	Measures of Central Tendency: Median
11	Measures of Central Tendency: Mode
12	Measures of Dispersion: Standard Deviation
13	Measures of Dispersion: Standard Deviation
14	Measures of Dispersion: Quartile Deviation
15	Measures of Dispersion: Quartile Deviation
16	Co-relational Analysis
17	Co-relational Analysis
18	Co-relational Analysis
19	Regression analysis
20	Regression analysis
21	Regression analysis
22	Methods of hypothesis testing: chi-squired test
23	chi-squired test
24	t-test
25	z-test
Tutorials	
1-2	Relevance of quantification and measurement
3	Methods and use of macro-statistics and secondary sources
4-5	Application of Computers in Social Research
6-8	SPSS
9-11	Research Project workshop

# Readings:

- 1. Blalock, H. Social Statistics. New York: McGraw Hill, 1979.
- 2. Irvine, J. et al. Demystifying Social Statistics. London: Pluto Press, 1979.
- 3. Chatfield, C. and A. Collins. *Introduction to Multivariate Analysis*. London: Chapman and Hall, 1980.
- 4. De Vaus, D.A. Surveys in Social Research. London: George Relen and Unwin, 1986.
- 5. Fielding, J.L. and N. Gilbert. Understanding Social Statistics. New Delhi: Sage, 2006.
- 6. Foster, J.J. Data Analysis Using SPSS for VVindows Versions 8 10- A Beginner's Guide. London: Sage, 2001.
- 7. Nachmias, C. and A. Leon-Guerrero. Social Statistics for a Diverse Society. New Delhi: Sage 2011.
- 8. Wagner, W.E. Using SPSS for Social Statistics and Research Methods. New Delhi: Sage, 2010.
- 9. Walsh, A. Statistics for the social sciences: with computer applications. New York: Harper and Row, 1990.

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Reflective practicing and experiential learning will be the basis of teaching and learning process. The time in class will be split between lectures, discussions, micro group tasks and a workshop.

# Course Requirements / Mode of Evaluation

# As per the University guideline.

Type A- 2 Tests (Mid Term & End Term)

Type B- 2 Tests (Applying SPSS & Term Paper)

The timing will be announced later as per the directives from controller of examinations time to time.

# **Expected outcome**

By the end of the course, the students should be able to:

- Use social statistics to analyse and interpret the quantifiable social reality.
- Apply basic social statistic techniques for analysing scientific data.

3. Apply SPSS for social science research

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