

  
**MANGALORE UNIVERSITY**  
**Department of Sociology**

**MA Sociology**

**SYH 452 Social Statistics**

**Course Outcome:**

- CO1. Use of statistical values in social research.
- CO2. Handling Quantitative data in social research.
- CO3. Use of computers in social research
- CO4. The methods of calculating the central tendencies of data
- CO5. Use dispersion values of the data
- CO6. Use correlation between the variables
- CO7. Application of statistical software in social research

**Objectives:**

After the completion of the course the student will be familiar with

- 1. The statistical values of the numerical data
- 2. The methods of calculating the central tendencies of the data
- 3. The dispersion values of the data
- 4. The correlation between the variables
- 5. The use of computers in social research

**UNIT – I : Introduction:**

**Hrs – 16**

- a. Importance of Statistics in social research
- b. Classification of data
- c. Graphical Presentation of Data – graphs, Diagrams, stem & leaf, tables.

**UNIT – II: Measures of Central Tendency:**

**Hrs – 16**

- a. Mean
- b. Median
- c. Mode

**UNIT – III: Measures of Dispersion:**

**Hrs – 16**

- a. Range, quartiles.
- b. Standard deviation and mean deviation.
- c. Relative measures of Dispersion and Co-efficient

**UNIT – IV: Correlation analysis:**

**Hrs – 16**

- a. Chi-square and ANOVA tests
- b. Pearson's Product moment
- c. Spearman's Rank correlation

**UNIT – V: Computers and Social Research:**

**Hrs - 16**

- a. Use of Computers in Social Research
- b. Software Package for Social Research - Excel and SPSS
- c. Limitations of computer use in research

**Reference Books:**

Agarwal B.K. *Statistical Mechanics*. New Delhi.

Bhattacharya, Gouri K. *Statistical Concepts and Methods*, John Weley Publication: New York.

Blalock, Habertern. *Social Statistics*, Tokyo: MacGraw Hill Publication.

Ghosh M.K. *Statistics*, Indian Press.

Gupta B.N. *Statistics: Theory and Practice*. Sahitya Bhavan Publication.

Gupta R.C. 2<sup>nd</sup> ed.: *Statistical Quality Control*. New Delhi.

Gupta S.P. *Statistical Methods*. Sulthan Chand Publications: New Delhi.

Gupta V.P. *Statistical Mechanism*. Meerut Publication: Gujarat.

Irvine, J., I. Miles and J. Evans (eds.) 1979. *Demystifying Social Statistics*. London: Plauto Press.

John H. Mueller and Karl F. Schuessler. 1969. *Statistical Reasoning in sociology*. New Delhi: Oxford.

Ratna V., Jatar. *Statistical Calculation*, Ram Prasad Publication: Agro.

Weinstein, Jay Alan. 2010. *Applying Social Statistics*. UK: Rowman and Littlefield publishers.