Semester: III	
Programme : Sociology	
Course : Statistics for Social Science Research	
Paper code: S2SO230311T	**Credits: 3**
Hours/week : 3 Hours/week	
Category: Core/MDC/SEC/VAC : Skill Based Course	
Theory / Practical / Composite : Theory & Practical	
No of Modules : 2	

Course Overview: This course introduces students to the fundamental concepts and methods of statistics as applied in social science research. It is designed to equip learners with both theoretical understanding and practical skills necessary for analyzing and interpreting social data. The course covers essential statistical tools and techniques, emphasizing their relevance and application in real-world social research scenarios. Focus is laid both on theoretical as well as use of software.

Course Outcome:

1. Recall the key statistical terms and concepts relevant to social science research.

2. Explain the importance and role of statistics in analyzing social phenomena.

3. Use appropriate statistical methods to organize, summarize, and present social science data (e.g., graphical and diagrammatic presentation, measures of central tendency and dispersion).

4. Analyze social science data using statistical techniques such as ANOVA to draw and evaluate meaningful conclusions.

5. Critically assess the suitability and limitations of various statistical techniques for different types of social science data.

6. Design basic statistical analyses using tools such as Excel and ANOVA to address research questions in social science.

Prerequisites:

SYLLABUS

UNIT/Module	CONTENT	HOURS or NUMBER OF CLASSES	CO Mapping	COGNITIVE LEVEL
I.	1. Relevance of Statistics 2. Graphical and Diagrammatic presentation of Data 3. Measures of Central Tendency 4. Measures of Dispersion	2 hours/week	**CO1** **CO2** **CO3** **CO4** **CO5** **CO6**	**K1** **K2** **K3** **K4** **K5** **K6**
II.	1. Excel 2. ANOVA	1 hour/week	**CO1** **CO2** **CO3**	**K1** **K2** **K3**

				CO4	K4
				CO5	K5
				CO6	K6

Text Books
1. Elifson, Kirk. 1990. *Fundamentals of Social Statistics*, McGraw-Hill Publishing. Chapters 1,2,3,4,5,6
2. Baker, Therese.1998*. Doing Social Research*, Boston, Madison, New York: Mc-Graw Hill.
3. Joseph Healey, 1984. *Statistics: A Tool for Social Research* Wadsworth Pub Co. Chapters 1,2,3,4
Suggested readings
1. Freedman, David; Pisani, Robert; & Purves, Roger. (2007). *Statistics* (4th ed.). W. W. Norton & Company
2. Witte, Robert S, and JS Witte. 2007. *Statistics,* 11th Edition. Wiley.
Web Resources
1. Research Techniques, Statistics and Computer Applications, Swayam Portal **https://onlinecourses.swayam2.ac.in/ini25_hs34/preview**
Evaluation Theory CIA: 15 marks (10[midsem] +2 [attendance]; Practical: 3) Semester Exam: 35 marks
Paper Structure for Theory Semester Exam Module :   **Total Marks 35**   **1 long question out of 2: 1X15=15**   **2 short questions out of 4: 2X10= 20**

Course outcomes (COs) and Cognitive Level Mapping

COs	CO Description	Cognitive levels
CO1	Recall key statistical terms and concepts relevant to social science research.	K1
CO2	Explain the importance and role of statistics in analyzing social phenomena	K2
CO3	Use appropriate statistical methods to organize, summarize, and present social science data (e.g., graphical and diagrammatic presentation, measures of central tendency and dispersion).	K3
CO4	Analyze social science data using statistical techniques such as ANOVA to draw and evaluate meaningful conclusions.	K4
CO5	Critically assess the suitability and limitations of various statistical techniques for different types of social science data.	K5
CO6	Design basic statistical analyses using tools such as Excel and ANOVA to address research questions in social science.	K6