

ADVANCED SOCIAL RESEARCH AND STATISTICS

PH.D COURSE WORK

**Total Credits :4
hours**

**Course: Core
Teaching Hours:60**

Course Objectives:

- To provide an introduction to advanced social research methods in quantitative and qualitative research.
- To enable learners gain a thorough understanding of the critical stages in the research process.
- To help learners understand the application of various statistical tools in data analysis.

Course Learning Outcomes:

At the end of the course, the students be able to

- Explain advanced social research methods in quantitative and qualitative research.
- Articulate the critical stages in the research process.
- Execute the various statistical tools in data analysis.

Unit I: Introduction to Research methods

(12 hours)

Inductive Method, Deductive Method, Scientific enquiry in social work. Evidence based practice and social work research. Ethical Committee, Ethics in social work research.

Research Problem: identification of the problem, selection of the problem, formulation of research questions. Pre test, Pilot study.

Qualitative Research Method: Meaning, Concept and Characteristics of qualitative research. Types : ethnography, narrative, phenomenological, grounded theory, Focus Group Discussion, In-depth Interviews and case study.

Unit II : Quantitative & Qualitative Research Methodology

(12 hours)

Research Design: Meaning, importance and components. Types of research



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designs. Concepts, constructs and variables.

Hypothesis: meaning, purpose, structure and types, hypothesis testing. Data sources:

Primary and secondary. Levels of measurement: nominal, ordinal and interval scale.

Sampling: Purpose, sample size, Random and Non-random sampling methods, sample error.

Unit III: Data Collection

(12 hours)

Quantitative Data Collection methods: surveys using questionnaire, structured and semi-structured Interview, structured observation.

Tool construction techniques: guidelines for asking questions, questionnaire construction, scale construction – Likert type and Semantic differential scales, Reliability and validity of measurement instruments.

Qualitative Methods of data collection: unstructured in-depth interview, focus group discussion and observation.

Unobtrusive measures: secondary data analysis and content analysis.

Unit IV: Basic Statistics

(12 hours)

Quantitative Method

Theory of probability, Parametric and non-parametric tests, descriptive and inferential statistics – application and interpretation of results.

Univariate analysis – distributions – normal and binomial, central tendencies, measures of dispersion, frequencies and percentages.

Bivariate analysis (hand calculation method) – chi-square, z-test, simple correlation, t-test, ANOVA, and bivariate regression.

Qualitative Data management: recording, memos/field notes, coding & interpretive techniques

Unit IV: Advanced Statistics*

(12 hours)


Introduction to Multivariate analysis – partial correlation, multiple regression, cluster analysis, discriminant analysis, path analysis.

Time series analysis – nature, application and methods.

Index numbers - meaning, application and methods.

Computer Applications for quantitative data analysis - SPSS (workshop)




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Qualitative Data Analysis: data reduction, data display (matrix, word lists), conceptmapping. Structure of a qualitative research report.

* Concepts only. Calculation methods are not included.

Teaching Methodology:

Lectures, reading material, discussions, assignments, case analysis, review of journal articles and theses, Mini Research.

References:

- Allen Rubin, Earl R. Babbie, Research Methods for Social Work, Cengage Learning, 2010
- Kothari.C.R. Research Methods & Techniques 1997, New Age International Pvt Ltd
- Devendra Thacker 1994, research methodology in social sciences, deep & deep publications
- Norman. K. Denzin, Yvonne. S. Lincoln 2000, Qualitative Research. Sage Publications. INC
- Louise H. Kisdder, 1981, Research Methods in Social Sciences, Holt, Rinehart and Winston
- David, Silverman 2000, Qualitative Research, Sage Publications.



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