



Ph.D. COURSE WORK PAPER -1 RESEARCH METHODOLOGY

1. Introduction & Research Design

Nature and objectives of research. Scope of Research, Types of Research, Tools and Techniques of Research Methods of Research! historical, descriptive and experimental. research process, research approaches, criteria for good research. Meaning of research design, need of research design, features of good design, different research designs. and basic principles of experimental designs, design of experiments.

2 Data collection & Analysis

Types of data, methods and techniques of data collection, primary and secondary data, meta analysis. historical methods, content analysis, devices used in data collection. pilot study and pretest. of tools, choice of data collection methods.

3. Processing and Analysis of Data: Measures of Central Tendency, Measures of Dispersion, Measures of Variation. Measures of Central Tendency vs. Measures of Dispersion, Normal distribution, Measures of Skewness and Interpretation, Correlation and Regression : Types & applications, Chi-square test' its purpose and use.

4. Paper writing and report generation:

Basic concept of Paper I thesis writing and report generation, writing Research Abstract, Introduction, review of literature, Result, Conclusion, Concepts of Bibliography and References, significance of report writing. steps of report writing, Types of Research reports. Methods of presentation of report. Formats of publication in research general.

5. Computer Applications:

Application of computer in research. Generating charts/ graph in Microsoft Excel , Power point presentation ,Web Search: Introduction to Internet, Use of Internet and WWW. Using search engine like Google. Yahoo etc.

Reference Books: Latest Editions of following Books

1. **Kothari**, C_R., Research Methodology (Methods and Techniques), New Age Publisher.
2. Donald R. Cooper, Pamela S. Schindler, Business Research Methods. 8/e. Tata McGraw-Hill Co. Ltd.
3. Bendat and Liersol, Random data Analysis and Measurement Procedures. Wiley Inter science,
4. Raymond Greenlaw, InLine/Online' Fundamentals of the Internet and the World Wide Web, Tata McGraw-Hill Co. Ltd.
5. a, John W. Creswell, Research Design, SAGE publications, INC.
5. 'Trivedi RN & Shukla D.P., Research Methodology, College book depo. Jaipur
Bill Taylor, Gautam Sinha & Taposh Ghoshal, Research Methodology. Prentice Hall of India private limited, New Delhi