

**PDE 101: RESEARCH METHODOLOGY**

✓ Module 1: Research Mythology, Research Approaches, Methods and Methodology, Research Procedure, Process and Criteria, Social Science Methodologies, Techniques of Defining a Problem, Research Design, Principles of Experimental Design, Developing a Research Plan.

Hours=10

✓ Module II: Sampling Design: Census and Sample Survey, Random Sampling Design, Types of Sampling Design, Criteria and Characteristics of a Good Sample, Sampling Techniques and Analysis of Data, Interpretation and Report Writing, Method of Data Collection. Primary and Secondary, Data Collection Methods, Case Study Method.

Hours=10

Module III: Hypothesis Testing: Procedures for Testing Hypothesis, Testing for Difference between Means, Proportions and Variance; Statistics and Research: Graphs and Diagrams, Application of Central Tendency, Dispersion, Skewness, Interpolation and Extrapolation, Index Number, Time Series, Correlation Theory and Application of Regression.

Hours=10

Module IV: Basic knowledge of Computer System and Computer Technology, Computer Application in Economics, Elementary knowledge of Package like MS Office (Excel and Power Point) and Stata.

Hours=10

**Recommended Readings:**

1. Piaget, Jean (1973): Main Trends in Inter-disciplinary Research, London: George Allen.
2. Odum H. W. and other (1929): An Introduction to Social Research, Heney Holt, New York.
3. Kothari, C R (1997): Research Methodology, Wishwa Prakashan, New Delhi.
4. Goode, William J & Halt, P.K. (1952): Method in Social Research, MC. Graw Hill, New York.
5. Young, Pauline (1960): Scientific Social Survey and Research, Prentice -Hall, New York.
6. Rao, P & Miller R. (1972): Applied Econometrics, Prentice-Hall.
7. Koutsyannis A. (1972): Theory of Econometrics, Prentice-Hall.
8. David Bowers: Statistics for Economists (Latest Edition), ELBS, New Delhi.

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P.T.O.

9. Rajaraman, V. (1985): Fundamentals of Computer, Prentice Hall New Delhi.
10. Nie, N H and other (1970): Statistical Package for social Sciences, Mc. Graw Hill, New Delhi.
11. Gupta, S.P: Statistical Methods (latest Edition)
12. Mehmood, Aslam: Statistical Methods (Latest Edition)
13. Bryman, Alan (2008), Social Research Methods, Oxford University Press, New Delhi.

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