

- **Introduction to Research.**
 - Meaning, definitions and scope of research.
 - Methods of research
 - Objectives and purposes of research.
 - Application of research method in geography.
 - Advanced research in geography.
- **Types of Research.**
 - Basic versus applied research.
 - Historical research.
 - Descriptive research.
 - Correlational research.
 - Causal – comparative research.
 - Experimental research.
 - Qualitative and quantitative research.
- **Research Problem**
 - Selection.
 - Sources.
 - Characteristics/Criteria.
 - Statement of problem.
- **Review of Related Literature**
 - Definition, purpose and scope.
 - Preparation.
 - Sources.
 - Abstracting.
 - Reporting.
- **Research Hypothesis or Question**
 - Definition and purpose.
 - Characteristics.
 - Types of hypotheses.
 - Stating the hypothesis/question.

- **Research Plan and Objectives**
 - Formulation of research plan or research design.
 - Formulating research objection.
- **Sampling**
 - Definition and purpose.
 - Types/Techniques of sampling.
 - Sampling techniques and geographic research.
- **Research instruments.**
 - Purpose of research instruments.
 - Characteristic of research instruments.
 - Types of research instrument.
 - I. Questionnaire.
 - II. Interviews.
 - III. Observation.
 - IV. Documents.
 - V. Tests.
 - VI. Important tools for geographic research.
- **Collection and Analysis of Data.**
 - Data collection.
 - Tabulation of data.
 - Data analysis.
 - Interpretation of data.
 - Statistical techniques and data analysis.
 - Data collection and analysis in geographic research.
- **Writing Research Proposal and Report**
 - General rules for writing and typing.
 - Format and style.
 - Types of research reports.
 - Evaluation of research report.
 - Theses and dissertation.
 - Journal's articles.
 - Paper read at professional meetings.

Recommended Books:

1. Ackerman, Edward A.; 1958 Geography as a Fundamental Research Discipline, University of Chicago Press, Chicago
2. Croxton, F.E. & Cowden, D.J.; 1955 Applied General Statistics Isaac Pitman, London.
3. Dr. K. L. Narasimha Murthy (1992) Research in Geography: A Survey 1st Edition; Ashish Publishing House, New Delhi.
4. Ebdon, D.; 1977 Statistics in Geography, Basil Blackwell Oxford.

5. "Educational Research: Competencies for Analysis and Application" Fifth edition, Macmillan Publishing Company,
6. Gee, W. 1950 Social Science Research Method, Appleton Century Crofts, Inc. New York.
7. Gregory, S.; 1973 Statistical Methods and the Geographers, Longman London.
8. Hammond, R.E. Mc. Cullagh; 1978 Quantitative Techniques in Geography, Clarendon Press, Oxford.
9. Hartshorne, R. Perspective on the Nature of Geography, John Murray London.
10. Huff, D.; 1973 How to Lie with Statistics, Hammonds-worth, Penguin.
11. James, P.E. & Jones C.F ; 1954 American Geography, Inventory & Prospects, University Press, Syracuse.
12. James, P.E. New View Points in Geography, National Council for the Social Studies Washington.
13. Keith Hoggart, Loretta Lees & Anna Davies (2002) Researching Human Geography, Arnold Publishers, London, 1st Edition
14. Martyn Densombe (2003) The Good Research Guide: for Small Scale Social Research Projects. 2nd Edition, Open University Press Phila Delphic.
15. Nicholas J. Clifford & Gill Valentinc () Key Mthods in Geography, Sye Publications, London, 1st Edition, (2003).
16. Norcliffe, G.B.; 1977 Inferential Statistics for Geographers Hutchins London.
17. Plate, R.S.; 1959 Field Study in American Geography, Illinois, University Press Chicago.
18. Researchin Education by John W. Best & James V. Kahn, 7th Edition (2003) 7th Edition Printice Hall Private Ltd. New Delhi.
19. Therese L. Baker (1999) Doing Social Research, 3rd Edition Boston; McGraw Hill.
20. Taylor, P.J.; 1977 Quantitative Methods in Geography, Houghton Mifflin Boston.
21. Walker; 1963 The Nature of Scientific Thought, Prentice Hall New Jersey.
22. Wright ; 1951 Aids to Geographical Research, Columbia University Press NewYork.
23. Young, P.V.; 1956 Scientific Social Surveys & Researches, Prentice Hall New York.