

**BS Geography 4 Years Programme, University of the Punjab, Lahore****• 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 Hypo Thesis 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 1<sup>st</sup> 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, 1<sup>st</sup> Edition
14. Martyn Densombe (2003) The Good Research Guide: for Small Scale Social Research Projects. 2<sup>nd</sup> Edition, Open University Press Phila Delphic.
15. Nicholas J. Clifford & Gill Valentinc ( ) Key Mthods in Geography, Sye Publications, London, 1<sup>st</sup> 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. Research in Education by John W. Best & James V. Kahn, 7<sup>th</sup> Edition (2003) 7<sup>th</sup> Edition Printice Hall Private Ltd. New Delhi.
19. Therese L. Baker (1999) Doing Social Research, 3<sup>rd</sup> 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 New York.
23. Young, P.V.; 1956 Scientific Social Surveys & Researches, Prentice Hall New York.