**Directorate of Distance Education**

**Integral University, Lucknow**

**Subject Name: Methodology of Educational Research**

**Subject Code: MAE 204 Paper Code: MER/M**

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| **C**  **O**  **N**  **T**  **E**  **N**  **T**  **S** | S. N. | Chapter Name |
| 1 | Meaning, Concept and Significance of Research in Education |
| 2 | Action Research |
| 3 | Research Process |
| 4 | Sampling |
| 5 | Methods of Research |
| 6 | Tools of Research |
| 7 | Construction and Procedure of Research Tools |
| 8 | Research Report |

1. **Meaning and Concept of Research**
   1. Meaning and Concept of Research
   2. Characteristic of Research
   3. Concept of Educational Research
   4. Forms of Educational Research
      1. Fundamental research
      2. Applied research
      3. Action research
   5. Need and Importance of Research in Education
   6. Role and Significance of Research in Education
2. **Action Research**
   1. Concept of Action Research
   2. Definition of Action Research
   3. Process of Action Research
      1. Identification of the Problem
      2. Defining and Delimiting the Problem
      3. Analysing Causes of the Problem
   4. Formulation of Action Hypothesis
      1. Design for Testing the Action Hypothesis
      2. Evaluation of the Action Programme
      3. Follow-up and Communicating the Findings to Others
   5. Difference between Action Research and Fundamental Research
3. **Research Process**
   1. Identification and Definition of a Problem
      1. Selection of Area
      2. Definition of the Problem
      3. Statement of the Problem
   2. Operational Definition
      1. Evaluation of the Problem
      2. Survey of Relevant Information
      3. Reference Books
      4. Encyclopaedias
      5. Dictionaries
      6. Year-Book and Hand-Books
      7. Directories and Bibliographies
   3. Index
      1. Research Periodicals and Journals
      2. Abstracts
      3. Theses and Dissertations
   4. Formulation of Hypotheses
      1. Meaning and Concept of Hypothesis
      2. Sources of Hypothesis
      3. Qualities of Hypothesis
   5. Types of Hypothesis
      1. Directional Hypothesis
      2. Non-Directional Hypothesis
   6. Testing of Hypothesis
      1. Collection of Data
      2. Analysis of Data
      3. Organization
      4. Analysis
      5. Interpretation
      6. Conclusions and generalizations
4. **Sampling**
   1. Sample
      1. Population
      2. Statistic and Parameter
      3. Census
      4. Sampling Frame
      5. Sampling Error
   2. Advantages of Sampling Over Complete Census
      1. Reduced Cost
      2. Less Time Consuming
      3. Greater Speed
      4. Greater Accuracy
   3. Types of Sampling
      1. Probability Sampling
      2. Non-Probability Sampling
   4. Probability Sampling Methods Procedures
      1. Simple Random Sampling
      2. Systematic Sampling
      3. Stratified Random Sampling
      4. Cluster Sampling
   5. Cluster Vs Stratum
   6. Non-Probability Sampling Procedures
      1. Convenience sampling
      2. Purposive Sampling
      3. Quota Sampling
   7. Distinction between Probability and Non-Probability Sampling
5. **Methods of Research**
   1. General Methodology Classification
      1. Historical Research
      2. Survey Research
      3. Casual Comparative Research
      4. Experimental Research
   2. The Historical Method
      1. Nature of Historical Research
      2. Value of Historical Research
   3. Types of Historical Research
      1. Legal Research
      2. Studying the History of Ideas
      3. Studying the History of Institutions and Organisations
      4. Bibliographic Research
   4. Steps in Historical research
   5. The Normative Survey Method
      1. Nature of the Normative Survey Method
      2. Value of Normative Survey Research
   6. Types of Normative Survey Research
      1. School Survey
      2. Job Analysis
      3. Documentary Surveys
      4. Public Opinion Surveys
      5. Social Surveys
   7. Steps in Normative Survey Research
   8. The Case Study
      1. Nature of Case Studies
      2. Value of Case Studies
      3. Steps of the Case Study
   9. The Casual Comparative Studies
      1. Nature of Casual Comparative Studies
      2. Value of Casual Comparative Method of Research
      3. Guidelines for Casual Comparative research
   10. Types of Casual Comparative Designs
       1. Correlational Design
       2. Criterion Group Design
   11. The Genetic Studies
       1. Value of Genetic Studies
   12. Types of Genetic Studies
   13. The experimental method
       1. Nature of experimental Research
       2. Characteristics of Experimental research
   14. Methods for controlling Inter-Subject Differences
   15. Methods for controlling Situational Variables
       1. Manipulation
       2. Observation
       3. Replication
   16. Value of Experimental Research in education
   17. Steps in Experimental research
   18. Experimental design
       1. Criteria for experimental Design
   19. Types of Validity
       1. Internal Validity
       2. External validity
          1. Types of external validity
          2. Types of experimental design
6. **Tools of Research**
   1. Questionnaire
      1. Definition of Questionnaire
      2. Types of Questionnaire
      3. Designing a Questionnaire
   2. Interview
      1. Definition of Interview
      2. Types of Interviews
      3. Advantages of Interviews
   3. Observation
      1. Meaning and Definition of Observation
      2. Process of Observation Method
      3. Types of Observation
   4. Psychological tests
      1. Meaning and Definitions of Psychological test
      2. Uses of Psychological tests
      3. Purposes of Psychological tests
      4. Classification of Psychological tests
      5. Classification on the Basis of Behaviours Sampled
   5. General Intelligence Tests
   6. Special Aptitude tests
   7. Clerical Aptitude Test Battery
   8. Battery of Mechanical Aptitude tests
7. **Construction and Procedure of research Tools**
   1. Rating Scale
   2. Construction of Rating Scales
   3. Types of Rating Scales
   4. Forced Choice Ratings
   5. Advantages of Rating Scales
   6. Limitations of rating Scales
   7. Nature of Achievement tests
   8. Essay Versus Objective Questions
   9. Uses of Achievement Tests
   10. Construction of Achievement Tests
   11. Difficulty Value
   12. Internal Consistency
   13. Reliability and validity of Achievement test
8. **Research report**
   1. Need of research Report
   2. Importance of Research Report
   3. Part of a Report
   4. Cover and the Title Page
   5. Introductory Pages
   6. List of tables and Illustrations
   7. Textual Body
   8. Reference Section
   9. Mechanics of report Writing
   10. Footnote
   11. Tables
   12. Illustrations
   13. Typing
   14. Proof reading
   15. Binding and submission
   16. Evaluation of research report
   17. The title
   18. The problem
   19. Review of related literature
   20. Methodology
   21. Data analysis
   22. Conclusions and suggestions