

**M.Ed**  
**CORE COURSE 3**  
**INTRODUCTION OF EDUCATIONAL RESEARCH**  
**FIRST YEAR / SEMESTER II**

**OBJECTIVES**

At the end of the course the student teacher will be able to.

- develop tools for research.
- apply their statistical knowledge in data analysis.
- interpret educational research findings.

**UNIT I: BASIC OF RESEARCH**

Meaning – Definition - Scope and Need for Educational Research - Problems faced in Educational Research – Strategies to approach them – Qualities of a Researcher.

**UNIT II :RESEARCH PROBLEM AND SAMPLING**

Defining a Research Problem – Sources for Research Problem – Study of Related Literature – Criteria for Selecting a Problem – Statement of the Research Problem – Determining feasibility of the study – Hypothesis: Meaning, Types and formulation – Sampling - Types of Sampling Procedure – Criteria for Selection of a sample – Research Proposal: The Need and format – Collection of Data: Organising and analyzing the Data.

**UNIT III:TYPES RESEARCH**

Historical –Survey – Experimental – Exploratory – Case Study – Genetic Method: Cross sectional and longitudinal – Analytic and Comparative Studies.

## **UNIT IV :RESEARCH TOOLS AND CHAPTERIZATION**

Criteria for Selection of a Tool – Characteristics of a Tool - Construction of Tools – Types of Tools: Observation, Interview, Questionnaire, Check List, Rating Scale, Attitude Scale (Thurstone Method and Likert Method) – Achievement Test – Diagnostic Test and Prognostic Test – Characteristics of a Research Tool - Reliability, Validity and Objectivity – Standardization of Tests and General Procedure for Item Analysis and Factor Analysis -Chapterization – Indexing – Footnote – Bibliography – Appendix – Format.

## **UNIT V : ORGANISATION OF DATA**

Organisation of Data – Graphical and Statistical Representation – Measures of Scales, Nominal, Ordinal, Interval, Ratio- Organisation and Tabulation of Data – Classification and Frequency Distributions – Graphical Representation – Bar diagram, Pie chart , histogram ,Frequency polygon, Frequency Curve, ogive, Overlapping Distribution.

## **REFERENCES**

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