

**CORE COURSE-I**  
**M.Ed. CC101: FUNDAMENTALS OF EDUCATIONAL RESEARCH**

**OBJECTIVES:**

The Student:

1. Understands the place of research in education.
2. Gets acquainted with various resources of educational research.
3. Becomes familiar with various methods of research.
4. Achieves skill in writing and comprehending research reports.
5. Gets conversant with the problems of research design, tools of collecting data (and methods) and techniques of analysis.
6. Is initiated into research by undertaking a research problem of research and preparing a dissertation.

**UNIT-I Educational Research and Research Process**

- 1.1 Meaning of research and educational research
- 1.2 Need for educational research
- 1.3 Characteristics of educational research
- 1.4 Factors hindering educational research
- 1.5 Types of research
- 1.6 Teachers and research
- 1.7 Ethical consideration in research

**UNIT-II Research Problem, Variables and Hypotheses**

- 2.1 Research problem
  - Sources of a research problem
  - Selection and nature of a research problem
  - Characteristics of a research problem
  - Techniques involve in defining and formulating a research problem
- 2.2 Variables
  - Nature and types of variables
  - Quantitative and categorical variables
  - Continuous and discrete variables
  - Independent, dependent, moderate, control, intervening variables
  - Selection of variables in educational research
- 2.3 Hypotheses
  - Meaning of hypothesis
  - Criteria for evaluating hypothesis - Objections to hypothesis construction
  - Writing the research hypothesis
  - Types of hypothesis
  - Testing a hypothesis
- 2.4 Research proposal
  - Importance
  - Format

### **UNIT-III Research Resources**

- 3.1 Reference books: Encyclopedia, Dictionaries, Almanacs and Yearbooks, Directories, Biographical sources, Bibliographical sources.
- 3.2 Books and monographs; Card; Catalog, Book-lists and Reviews
- 3.3 Periodical and Pamphlets: News papers, Periodicals, Micro films and other aids.
- 3.4 Dissertations, theses and research journals.
- 3.5 Review of Related literature: Through internet Inlib.net Through CD-Magazines
- 3.6 Institutions conducting research and nature of studies undertaken

### **UNIT-IV Research Methods**

#### 4.1 Quantitative Methods of Research

- Surveys: School surveys, job analysis, documentary analysis, public opinion surveys, community surveys
- Inter-relationship studies: Causal comparative studies, co-relational studies
- Developmental studies: Longitudinal and cross sectional studies, trend studies

#### 4.2 Experimental research: Definition of an experiment, variables in experimental research, criteria for evaluating experimental designs, control of the experiment, internal validity & methods of equating experimental and control groups, external validity

#### 4.3 Qualitative Methods of Research

- Historical methods: Collection of data, primary and secondary sources, external and internal criticism of source materials, interpretations in historical research
- Case Study