Introduction to Research Methods

Objectives: After studying the course, the students will be able to:

1. familiarize with the nature and scope of educational research.
2. get acquainted with the general research procedure.
3. develop an understanding about the different types of research methods in the field of education.
4. comprehend different types of tools and techniques used in educational researches.
5. apply and interpret various types of research tools.

UNIT-I Conceptual Aspects of Research

1. Meaning, nature and scope of educational research.
2. Scientific inquiry and theory development.
3. Types of research: Fundamental research, Applied research and Action research.
4. Qualitative and Quantitative research.
5. Ethics in research.

UNIT II General Research Procedure

1. Identification, Selection and Sources of research problem.
2. Delineating and operationalising variables: Dependent and Independent variables.
4. Hypothesis – definition, types and characteristics of a good hypothesis.
5. Preparation of research proposal.

UNIT-III Tools and Techniques of Research

1. Characteristics of Good Research Tool.
4. Use of aptitude test and Intelligence Test in Schools.
5. Sociometric techniques and their uses.
UNIT-IV Approaches and Methods of Research

1. Descriptive research: - Survey and ex-post facto research.
2. Historical research: - procedure, primary and secondary data.
3. Experimental research: -
   i. Pre – experimental design
   ii. True experimental design
   iii. Quasi experimental design
4. Factorial design – merits and limitations
5. Writing a research report.

BOOKS RECOMMENDED: