

Unit I	Educational Research
	(a) Sources of Acquiring Knowledge: Learned authority, tradition, experience, scientific method. (b) Meaning, steps and scope of educational research. (c) Meaning, steps and assumptions of scientific method. Aims and characteristics of research as a scientific activity. (d) Ethical Considerations in Educational Research. (e) Paradigms of educational research: Quantitative and Qualitative. (f) Types of research: Fundamental, Applied and Action.
Unit II	Research Design
	(a) Meaning, definitions, purposes and components of research design. (b) Difference between the terms research method and research methodology. (c) Research Proposal: Its Meaning and Need. i) Identification of a research topic : Sources and Need ii) Review of related literature iii) Rationale and need of the study iv) Definition of the terms: Real, nominal and Operational. v) Variables. vi) Research questions, aims, objectives and hypotheses. vii) Assumptions, if any. viii) Methodology, sample and tools. ix) Scope, limitations and delimitations. x) Significance of the study. xi) Techniques of data analysis and unit of data analysis. xii) Bibliography. xiii) Time Frame. xiv) Budget. xv) Chapterization.
Unit III	Variables and Hypotheses
	(a) Variables : i) Meaning of Variables ii) Types of Variables (Independent, Dependent, Extraneous, Intervening and Moderator) (b) Hypotheses : i) Concept of Hypothesis ii) Sources of Hypothesis iii) Types of Hypothesis (Research, Directional, Non-directional, Null, Statistical and Question-form) iv) Formulating Hypothesis v) Characteristics of a good hypothesis vi) Hypothesis Testing and Theory vii) Errors in Testing of Hypothesis
Unit IV	Sampling :
	(a) Concepts of Universe and Sample (b) Need for Sampling (c) Characteristics of a good Sample (d) Techniques of Sampling i) Probability Sampling ii) Non-Probability Sampling

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Verma, Dr. Vinod J. Dagwal, Dr. Sajid
Anwar & Dr. Damodhar F. Shastrakar**

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