

**Indian Institute of Teacher Education  
Gandhinagar**

Subject Education Paper No 103 Compulsory/Optional: Compulsory  
 Title of the Paper Methodology of Educational Research-1  
 Credit 2+2 (30+30 Hours)

**Objectives: Student can:-**

- 1 Explain the meaning, characteristics and steps of research
- 2 Present various types of researches and sources and library skills
- 3 Enlist criteria and sources for selection of research problem
- 4 Explain operational definition, variable and hypothesis
- 5 Prepare research proposal
- 6 Develop various types of tools
- 7 Explain various sampling techniques

**Mode of Curriculum Transaction**

- 1 Face to Face Teacher centered transaction
- 2 Video-Audio, Clippings for concept clarity
- 3 Group discussion/ Quizzes
- 4 Assignment / on hand practice
- 5 Students presentation

Unit	Sub-unit	Content	Credit
1	<b>1.0</b>	<b>CONCEPT OF EDUCATIONAL RESEARCH</b>	
	1.1	Meaning, characteristics Education Research, Steps of the research process	1
	1.2	Types of research: (a) Basic, Applied and Action research (b) Qualitative and Quantitative research	
	1.3	Areas of educational research	
	1.4	Types of sources	
	1.5	Library skill? Reading skill and note taking skill	
2	<b>2.0</b>	<b>SELECTION OF THE RESEARCH PROBLEM AND CONCEPT OF VARIABLES AND HYPOTHESES</b>	1
	2.1	Criteria for selection of research problem and sources	
	2.2	Defining operationally the related terms of research problem	
	2.3	Meaning and Types of variables	
	2.4	Meaning and Types of hypothesis	
	2.5	Bases for hypothesis construction	
3	<b>3.0</b>	<b>TOOLS OF RESEARCH</b>	
	3.1	Psychological Test: (a) types and its uses (b) construction procedure	1
	3.2	Questionnaire: (a) types, format and guidelines for questions and questioner ?, (b) advantages and disadvantages	
	3.3	Interview : (a) types of interview such as individual and	

Unit	Sub-unit	Content	Credit
		group, structured and unstructured (b) Administration of interview	
	3.4	Rating Scales: types, format and guidelines for constructing Rating Scales	
	3.5	Measurement of Attitude: Thurston and likert technique us meaning of checklist, Q-sort and semantic differential	
	3.6	Standardization of research tools: Reliability, Validity and Norms	
4	4.0	<b>Sampling Techniques</b>	1
	4.1	Meaning of population and sample	
	4.2	Importance of sampling	
	4.3	Characteristics of a good sample	
	4.4	Sampling Technique: (a) Probability Sampling: Simple random sampling, stratified random sampling, systematic sampling, cluster sampling (b) Non-probability sampling: incidental Sampling, purposive sampling, quota sampling.	

## Reference Books:

### English

Sr.	Title
1	Agrawal Y.P. (1988) Better Sampling: Concepts, Techniques and Evaluation. New Delhi: Sterling Publishers Private Ltd.
2	Anastasi, A. (1988) Psychological Testing New York: the Macmillan company
3	Backstrom, C.H. & Gerald, Hursh-cesar. (1981) Survey Research New York ,John Wilev & Sons
4	Best j.w. (1993) research in education, New Delhi: Prentice-Hall of India Pvt. Ltd.
5	Bogdan, R and Taylor, S.J. (1975) Introduction to Qualitative Research Methods. New York ,John Wilev & Sons
6	Bogdan R.C. & Biklen, S.K. (1998) Introduction to Qualitative Research of Education: An Introduction to Theory and Methods Boston: Allyn and Bacon
7	<b>BUCH, M.B., (Ed) (1974)A survey of research in, education, MSU, Baroda, CASE</b>
8	<b>BUCH, M. B., (Ed) (1979) Second survey of research in education, Baroda, SERD,</b>
9	<b>BUCH, M.B. (Ed) (1986) Third survey of research in education, New Delhi, NCERT,</b>
10	<b>Buch, M.B. (Ed). (1991). Fourth survey of research in education, New Delhi, NCERT</b>
11	<b>Campbell W.G. (1969) Form and Style in Thesis Writing. Boston: Houghton Mifflin Company</b>
12	<b>Champion, C.M. (1981) The Design of Educational Experiments. New York: McMillan Publishing Co. Inc.</b>

- 13 **Champion, D.J. (1981) Basic Statistics for Social Research, New York: McMillan Publishing Co. Inc.**
- 14 **Cohen, L. & Manion Lawrence (1994) research Methods in Education London Routledge**
- 15 **Cronback, L.J. (1970) Essentials of Psychological Testing New York: Harper & Row Publishers**
- 16 **Dayton, C.M. (1974) The Design of Educational Experiments. New York: McGraw Hill Book. Co.**
- 17 **Denzin, N. K. and Lincoln, Y.s. (EDS) (2000) Handbook of Qualitative Research, London : Sage**
- 18 **Desai, H.G. (1979) Style Manual for dissertations/Theses Rajkot : Saurashtra University**
- 19 **Edwards, A.L. (1957) Techniques of Attitude Scale Construction New York: Appleton Century Crofts . Inc**
- 20 **Gall, M.D., Gall, J.P. and Borg, W.R. (2007) Educational Research: An Introduction, Boston: Allyn and Bacon**

### **Gujarati**

- 1 ઉચાટ, ડી.એ. અને અન્યો (સ) (૨૦૦૬) શૈક્ષણિક સંશોધનનો સારાંશ (૧૯૭૮-૨૦૦૬) રાજકોટ:શિક્ષણશાસ્ત્ર ભવન, સૌરાષ્ટ્ર યુનિવર્સિટી
- 2 ત્રિવેદી, એમ.ડી. અને પારેખ, બી.યુ. (૧૯૮૮) શિક્ષણમાં આંકડાશાસ્ત્ર, અમદાવાદ: યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ
- 3 દેસાઇ, એચ.જી. અને દેસાઇ,કે. જી. (૧૯૮૭) સંશોધન પદ્ધતિઓ અને પ્રવિધિઓ, અમદાવાદ: યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ
- 4 દેસાઇ, એચ.જી. અને દેસાઇ,કે. જી. (૧૯૮૪) મનોવૈજ્ઞાનિક માપન, અમદાવાદ: યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ
- 5 પટેલ આર. એસ. (સં) (૨૦૦૮) એમ.એડ. લઘુશોધ નિબંધના સારાંશ: અમદાવાદ, જય પબ્લીકેશન.
- ૬ મોદી, ડી.જી. અને અન્યો (૧૯૯૧) સંશોધનોની માધુકરી, ભાવનગર શિક્ષણશાસ્ત્ર ભવન, ભાવનગર યુનિવર્સિટી
- ૭ શાહ, દિપીકા બી. (૨૦૦૪) શૈક્ષણિક સંશોધન, અમદાવાદ: યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ