

SARDAR PATEL UNIVERSITY
Programme: Master of Education
Semester: III
Syllabus with effect from: June 2016

Paper Code: PE03CMD201	Total Credits: 4
Title Of Paper: Advance research methodology in education	

Unit	Description in detail
	<p>OBJECTIVES:</p> <ul style="list-style-type: none"> • The student understand the concept and place of research in education. • Become familiar with various sources for research and review the literature. • Get acquainted with various types, approaches and methods of research. • Understand the process of educational research in terms of its plan, proposal, problem selection and design. • Get conversant with tools and procedure of collecting data and rechniques of analysis. • Initiate into research by undertaking a piece of research and preparing dissertation. • Achieve skills in writing and interpreting research report.
1	<p>Methods of Research</p> <p>Historical Case Study Experimental research – Randomized group design Factorial Design Qualitative Research Methods</p> <ul style="list-style-type: none"> - Concept and assumptions of qualitative research - Phenomenology, Naturalization inquiry - Ethno methodology, - Narratives - Mixmethod
2	<p>Tools and Techniques for Data Collection</p> <ul style="list-style-type: none"> ❖ Questionnaire ❖ Interview ❖ Inventories – Personality and Interest ❖ Scale – Attitude, Rating Scales ❖ Observations & Participant observation ❖ Standardization test
3	<p>Methods of data analysis</p> <ol style="list-style-type: none"> 1. Nature of educational data Qualitative & Quantitative 2. Data Analysis in Qualitative Research 3. Scales of measurement: Nominal, Ordinal, Interval & Ratio



	<p>4. Descriptive and Inferential statistics</p> <p>5. Testing of null hypotheses - types of error</p> <ul style="list-style-type: none"> - Parametric test : t-test and F-test (ANOVA) - Non parametric test : Chi-Square, Medium test, Sign test. <p>Co-relational techniques.</p> <p>Rank difference, Product moment Bi-serial, Point biserial, Tetra choric Coefficient of correlation Regression equation.</p>
4	<p>Writing Research Reports</p> <ol style="list-style-type: none"> 1. Format of research report 2. Preliminary Section 3. Main body of the report 4. Bibliography and Appendices

Basic Text & Reference Books:

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16. Andrews. F. M. et al A Guide for selecting Statistical techniques for Analyzing Social Data. 2nd Edition. Mchigan : Survey research Center University of Michigan, 1981.
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19. Edwards, A. L. Statistical Methods for Behavioural Sciences, Halt Rinehart and Winston, New York, 1963.
20. Ferguson. G.A. Statistical Analysis in Psychology an Education, New York : McGraw Hill, 1959`
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25. ઉચાટ ડી.એ .,જોષી એચ .ઓ .દોંગા ,એન.એસ .અને અંબાસણા એ.ડી સ:શોધન અહેવાલનું લેખન શી રીતે કરશો ?રાજકોટ નિજિજન સાયકો સેન્ટર 1998
26. જોષી એચ.ઓ .કસોટી સંરચના રાજકોટ :ડો .એચ.જી .દેસાઈ મેમોરીયલ એજ્યુકેશન ટ્રસ્ટ 1991
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