



C. U. SHAH UNIVERSITY
Wadhwan City

Department of Education(B.Ed.)
Semester: - III
Code: - MED03MER3
Name: – Methodology of Education Research-3

Teaching & Evaluation Scheme: -

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	Total		Theory				Practical (Marks)			Total
							Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
MED03MER3	Methodology of Education Research-3	4	0	0	4	4	30	--	70	3	---	-----	-----	100

Objectives:

After completion of this course the students will be able to:

1. Understand purpose of research report.
2. Comprehend different parts research report.
3. Prepare a research report.
4. Understand concept of normal distribution.
5. Apply concept of normal distribution practically.
6. Select appropriate statistical techniques for their dissertation.
7. Test various hypotheses.
8. Compute and interpret various parametric and non- parametric statistical tests and data.

Methodology of Education Research-3

Unit No.	Name of the Unit	Weightage
1.	Sources of Related Literature & Research Report	25%
	1.1 Review of related literature- Meaning, Importance and Sources of Related Literature (Primary & Secondary) 1.2 Uses of Internet Purposes of Research Report and Characteristics of Good Research Report 1.3 Format of Research Report 1.4 Bibliography, Footnote/End note, Appendices, APA style	
2.	Introduction of Statistics	25%
	2.1 Concepts and Importance of Statistics in Educational Research 2.2 Scales of Measurement: Nominal, Ordinal, Interval, Ratio, Concepts of Descriptive & Inferential Statistics 2.3 Measures of Central Tendency: Mean, Median, Mode (Meaning, Computation-Grouped Ungrouped data, Uses & Limitation) 2.4 Measures of Dispersion: Range, Standard Deviation, Quartiles Deviation, Scores-(Meaning, Computation-Grouped & Ungrouped data, Uses) Z Score and T-Score, Percentile and Percentile Rank	
3.	Normal Distribution & Measures of Relationship	
	3.1 The Normal Distribution: concept and Properties of Normal Distribution 3.2 Measuring Divergence from Normality: Skewness and Kurtosis (Concept, Types Computation) 3.3 Measures of Relationship: Concept and Uses of Correlation, Coefficient of Correlation, Karl Pearson's Correlation, Rank difference Correlation (Computation) 3.4 Measures of Relationship: (Meaning, Computation) Product Moment Correlation, Phi-Correlation, Contingency coefficient	
4.	Treatment of data	
	4.1 Meaning and Steps of Treatment of Data- Editing, Coding, Classification, Tabulation, Analysis, Interpretation, Implication 4.2 Parametric Test: Parametric t-tests, CR Test, (ANOVA) F-Test (ANCOVA) 4.3 Non-Parametric Test: Advantages, Limitations, Conditions for Using Non-Parametric Test, Chi Square (single strata and 2x2 small sample only), Sign Test, Median Test, The Mann-Whitney U-Test, Kendal's W-Test 4.4 Interpretation of data: Standard Errors of Mean SEM, testing of hypothesis, Types of Errors in testing of hypothesis, Level of Significance, Two Tailed and One Tailed, Tests of Significance and Degree of Freedom	

Suggested Activities:

1. Analytical review of past researches of a research
2. Errors committed in a past research report and/or evaluation of past research
3. Treatment of the data adopted in a particular research by the researcher
4. Preparation of synopsis of your Dissertation topic and present in your groupseminar
5. Prepare Research Proposal of Minor Research Project on any topic of Educational Research.

.

Reference Books:

1. Best, John W. (2005): Research in Education (10thed.) Englewood Cliffs N.J.: Prentice Hall, Inc.
2. Borg, W.R.& Gall M.D. (2006): Educational Research – An Introduction (8th ed.) New York; Longman Inc.
3. Burroughs, G.E.R. (1975): Design and Analysis in Educational Research (2nded.) Oxford: Alden & Mowbray Ltd.
4. Bruce W. (2012) : Conducting Educational; Research New York : McGraw Hill Book Co.
5. Gephart W.J. & Ingle, R. B. (1969) : Educational Research (Selected Readings)
6. Patel R. S. (2010) Fundamental Concept of Research (Research Handbook): Ahmedabad, Jay Publication

7. Patel R.S. (2015) Research Methodology (3rded. Gujarati Version), Ahmedabad, Jay Publication.
8. Patel R.S. (2015) Research Methodology (1sted. English Version), Ahmedabad, Jay Publication.
9. Patel, R.S.: February- 2012 Statistical Techniques for Data Analysis, (For all disciplines) (International Version), First Edition, LAP LAMBERT Academic Publishing GmbH & Co. KG DudweilerLandstr. 99, 66123 Saarbrücken, Germany.
10. Patel, R.S. : November-2011 Research Handbook, (For all disciplines) (International Version), First Edition, LAP LAMBERT Academic Publishing GmbH & Co. KG DudweilerLandstr. 99, 66123 Saarbrücken, Germany.
11. Desai H.G. (1979) : Style Manual For Dissertation / Theses Rajkot, Saurashtra University.