COURSE WORK IN EDUCATIONAL RESEARCH AND STATISTICS AT Ph.D. LEVEL

OBJECTIVES:

17 CREDITS

At the end of this course, the students will be able to:

- Explain and compare humanistic, scientific and policy research in education
- Use and apply advanced statistical procedures in analyzing data

Implications of Policy research

- Prepare Synopsis
- Interpret research findings

UNIT-I: Humanistic Research Methods Humanistic research procedure Analysis of evidence in Humanistic studies	02 Credit
UNIT-II: Scientific Research Procedure	03 Credit
Sampling research procedure	
Preparation of Synopsis	
Differences among need, reationale and significance of the stu	ıdy
Procedure of writing review: Integration of findings	2
Thesis writing: Steps, Chapters, Tables, Interpretation	
Discussion of result	
Bibliography or References: Method and Procedure	
UNIT-III: Policy Research	02 Credit
Educational research and policy making	
Policy oriented research: Trends, developmental, experimentate evaluative studies	al and

UNIT-IV: Use and Approach of Advanced Statistical Problem	04 Credit
ANCOVA with two three or more covariate	
Canonical Analysis	
Discriminant Analysis	
Meta Analysis	
Multilevel Analysis	
Significance level v/s magnitude of effect size	
UNIT-V: Research Designs	02 Credit

	aren Designs	
	Randomized Group designs	
	Latin Square design	
	Factorial design of experiment	
UNIT-VI: Sta	ntistical Analysis	02 Credit
	Parametric and Non-parametric statistics	
	Simple statistical applications such as t, F, ANOVA	
	Non-parametric statistics such as x^2 , Mannwhitney u test	s, ks tests.

UNIT-VII: Applications of computer in Educational Research 02 Credit

Uses of computer in data analysis. Preparation of Tables.

Test and Practicum

- 1. Two test of 10 marks each (Average of both the test will decide test marks out of 10)
- 2. Writing review of related research & literature on the problem finalized for Ph.D. Work.

Mode of Transaction

Lecture-cum discussion, teaching, learning strategies may be used to transact the curriculum. In some cases project may be assigned.

Evaluation

At the end of the course, university will conduct examination carrying one paper of 80 marks

Attendance: As per University rules

Award of Certificate: those students who secure 75% and above marks (out of total 100 marks) will be given certificate of successfully completed Ph.D. (Education) course work. Those students who secure less than 75% marks will be given two chances to appear in the next Ph.D course examinations.

Books:

Edwards, A.L.(1968). Experimental Design in Psychological Research, New York, American Publishing Co. Pvt. Ltd.

Campbell, D.T. and Fiske, D.W.(1959). Convergent and Discrimination Validation by Multi Trait – Multi Method Matrix. Psychological Bulletin, 5, 81-105.

Keeves, J.P.(1988). Educational Research, Methodology and Measurement. An international Handbook Oxford, Pergamon Press.

Learner, D. & Lasswell, H.(Eds.) (1951). The Policy Science. California Stanford.

Meltsner, A.J.(1976). Policy Analysis in the Bureaucracy. California: University of California, Press. Wilson, J.Q.(1981). Policy Intellectual and Public Policy. Public Interest, 64, 31-46. Winner, B.J.(1962). Statistical Principles in Experimental Design. Newyork: McGraw Hill.