



# SRI KRISHNADEVARAYA UNIVERSITY : ANANTAPUR

## CENTRE FOR DISTANCE EDUCATION

### SYLLABUS FOR MASTER OF PHILOSOPHY IN EDUCATION (M.PHIL.)

#### PAPER – I : RESEARCH METHODOLOGY

##### **Research Methodology:**

- i. Educational Research : 1. The meaning, nature and scope of educational research 2. The selection of a problem for educational research – selection, operational definition and evaluation of the problem 3) Hypothesis formation.
- ii. Types of Research: 1. pure and applied research 2. Action Research 3. Historical Research & Philosophical Research 4. Experimental and Prognostic research
- iii. **Methods of Research:** Descriptive Research- Expost facto research Lab- experiment- Field experiment- Field studies Experimental- Normative Survey- Historical - Development- Ethnographic -Documentary analysis - Evaluative Research and Action Research.
- iv. Tools and techniques of data collection 1. Questionnaire, opinionaire, check list, rating scale 2. Anecdotal records, cumulative records, documents 3. Interviews, group discussions observations 4. Tests- Achievements, diagnostic, intelligence, aptitude, interest scale, attitude scales, social measures.
- v. Organization, analyzing and interpretation of data: 1. Principles for analyzing the data 2. Objectivity, reliability and validity of data 3. The nature of research report.

##### **Statistics:**

- i. The nature of educational statistics: 1. Meaning, use and scope of statistics in education, descriptive and differential statistics.
- ii. Classification and tabulation of data: Type of educational data: Forming the frequency table; Graphical representation of data.
- iii. Measures of central tendencies – Mean, Medium and Mode: Measures of dispersion, range, standard deviation, percentiles and deciles. – various types of scales
- iv. The concept of correlation – different methods of correlation.
- v. Normal curve and its applications: skewness and kurtosis. Chi-square test, critical ratio, and their uses.

##### **REFERENCE BOOKS:**

1. Best John.W., 1967, Research in Education, Englewood Cliffs, Prentice Hall Pvt. Ltd., New Delhi.
2. Corey, Stephen.M., 1953, Action Research to improve New York.
3. Edwards (1973) Statistical Methods for Behavioural Sciences, New York: Holt, Rinehart and Winston.
4. Edwards.AL., Techniques of Attitude Scale Construction
5. Ferguson, George.A., Statistical Analysis in Psychology and Education, McGraw Hill, New York.
6. Fisher.R.A.1950.Statistical Methods for Research Workers, Hafner Publishing Co., New York.
7. Garrett, Henry E., Statistics in Psychology and Education, BombayVakils.
8. Good, William.J and Half Paul.K, 1952, Methods of Social Research, McGraw Hill Gogak Usha Ltd., Tokyo.
9. Guilford, J.P. and Benjamin Fruchter, Fundamental Statistics in Psychology and Education, McGraw
10. Kerlinger, Fred.N., 1983, Foundations of Behavioural Research, Surjeet Publications, Delhi.
11. Kulbir Singh Sidhu, 1987, Methodology of Educational Research, Sterling Publishers Pvt. Ltd., New Delhi.
12. Lokesh Koul, 1984, Methodology of Educational Research, Vikas Publishing House Pvt. Ltd., Delhi.



**SRI KRISHNADEVARAYA UNIVERSITY : ANANTAPUR**  
**CENTRE FOR DISTANCE EDUCATION**

Time 3 hours

Max Marks : 100

**MODEL PAPER**  
**PAPER – I RESEARCH METHODOLOGY**

Write all five questions with internal choice

20marks x 5 Questions = 100 Marks

1. a. What do you mean by research? Explain its significance in modern times. 10 Marks  
 b. Define Research problem and explain the criteria for selection of research problem.

OR

- a. State the history of research in elementary education.  
 b. Describe different types of variables with suitable examples.
2. a. Describe the process of identification of research problem in education.  
 b. State Philosophical aspects in educational research.

OR

- a. What is review of literature and discuss its importance in education research?  
 b. Discuss the different stages of research?
3. a. What is the importance of statistics in education? Explain the importance of tabular representation of data.  
 b. Briefly explain various types of scales of measurement.

OR

- a. Discuss the various types of tools and their importance in research.  
 b. Discuss the nature and usefulness of descriptive study.
4. a. Select a research report in your area of interest and evaluate it.  
 b. What is sampling? Describe various sampling techniques in Educational Research?

OR

- a. Describe the Experimental method in Educational Research  
 b. Explain the Historical method in Educational Research.
5. a. What are the steps involved in writing a research report in educational research.  
 b. Discuss the advantages and disadvantages of primary and secondary sources of data.

OR

- a. Explain the graphical method of determining the correlation between X and Y for the following data.

X	10	20	30	40	50	60	70	80
Y	32	20	24	36	40	28	38	44

- b. Discuss various measures of dispersion along with their advantages and disadvantages. Calculate S.D. for the following data.

17 16    19    28    25    23    21    18    13    19    12    27

\*\*\*\*\*