

Syllabus of Pre-Ph.D. Course in Education
Department of Education, DDU Gorakhpur University, Gorakhpur

ADMISSION PROCEDURE: As per University Research Ordinance - 2010

Paper-I

METHODOLOGY OF EDUCATIONAL RESEARCH

Course Objectives

To enable prospective researchers to understand-

- 1- Nature, need and classification of Educational Research.
- 2- The formulation of research problem.
- 3- Purpose of the review of literature.
- 4- Different methods & design of Educational Research.
- 5- Various kinds of tools and tests for collection of data in different types of Educational Research.

Course Content

Section-A

- 1- Nature of educational research, Need & significance, cross-sectional and longitudinal research in education, determining priorities in the field of educational research. Qualitative and Quantitative research, Fundamental, Applied and Action research, case study and Ethnographical research
- 2- Selection and formulation of research problem, Guiding principles of problem selections, sources for locating the problem, statement of problem and determination. De limitations, variables and their operational definition
- 3- Review of Related Literature and its need, significance and sources and library using skills.
- 4- Hypothesis and its need, forms of hypothesis and testing of hypothesis, characteristics of a good hypothesis
- 5- The Concept of population and sample, methods of sampling, features of a good sample. Sampling errors and measures for reducing them
- 6- Methods of educational research; Historical, Descriptive, Experimental and Philosophical
- 7- Tools of Data Collection: Observation, Interview, Questionnaires, Psychological tests and Inventories, check list, rating scales, qualities of a good test.
- 8- Preparation of synopsis of research project and writing of research report.

Books Recommended

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| 1 | Asher, William | : | <i>Educational Research and Evaluation Methods, Waltham: M.A. Little Brown, 1976.</i> |
| 2 | Best, John W. | : | <i>Research in Education, New Delhi Prentice Hall of India, 1982.</i> |
| 3 | Bhatanagar, R.P. et al. | : | <i>Shiksha Anusandhan, Meerut: Loyal Book Depot, 1995.</i> |
| 4 | Garrett, H.E. | : | <i>Statistics in Psychology and Education, Bombay: Vakils, Feffer and Simons Ltd., 1981.</i> |
| 5 | Guilford, J.P. & B. Fruchter | : | <i>Fundamental statistics in Psychology and Educations, London: McGraw Hill Kogakusha Ltd. 1978.</i> |
| 6 | Kerlinger, F.N. | : | <i>Foundations of Behavioural Research, New York: Holt Rinehart and Winston, Inc, 1973.</i> |
| 7 | Koul, Lokesh | : | <i>Methodology of Educational Research, New, Delhi: Vikas Publishing House, 1993.</i> |

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- 8 Shukla, P.C. : Experimental Research: Statistical Analysis of Data, in R.P. Bhatanagar (Ed.), Readings in Methodology of Research in Education, Meerut: Surya Publications, 2002.
- 9 Verma, M. : An Introduction to Educational and Psychological Research, Bombay: Asia Publishing House, 1965.
- 10 Yadav, M.S. & S.K. : Educational Research Methodological Perspectives, Mitra (Ed.) Baroda: CASE M.S. University, 1989.

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Paper-II

COMPUTER APPLICATION IN EDUCATIONAL RESEARCH

Course Objectives

To enable prospective researchers to understand-

- 1- Statistics techniques for the analysis and interpretation of data including SPSS.
- 2- The world of computers and their application in Educational Research.
- 3- The process of practical experiences in Educational Research.

Part-A

- 1- Fundamentals of Computer Application
- 2- MS office, E-mail and list server, file transfer Protocol, Tell-net, World wide web, Browser, Web publishing, HTML, Search engines
- 3- Collection of Information through Inter-net
- 4- Importance of e-learning for Educational Research
- 5- Organization and Analysis of Data through computer specially through SPSS in calculation and interpretation of the following:

Part-B

- 1- Tabulation and graphical representation of data.
- 2- Measures of central tendency. Measures of variability: Range, Quartile percentile, Mean deviation and Standard deviation. Measures of relative position
- 3- Correlation: Spearman's Rank Order and Pearson's Product- Moment Coefficient of correlation.
- 4- Normal Probability Curve, the properties and application, Skewness and Kurtosis.
- 5- Comparison of means of two groups through Critical-Ratio/ t-test.
- 6- Chi-Square Test and its uses in educational research.
- 7- Analysis of Variance: Simple one-way analysis. Sign test, median test, square test

Practical Orientation

- 1- Two Research Proposals and their presentation
- 2- Construction and evaluation of tools
- 3- Survey of at least 5 schools
- 4- Data collection on the basis of one research proposal
- 5- Analysis of Data by using qualitative or quantitative data
- 6- Interpretation of Data
- 7- Writing Research report: Chapterization, referencing, tabulation & appendix making and writing of bibliography.
- 8- Reviews of two books/papers etc.

BOOKS RECOMMENDED

- Agrawal, Y. P. (1976): *Sampling Method for Social Investigation*, Ambala: Bharat Vidya Vihar.
- Barlow, David H. & Michal Hesen (1984) *Single case Experimental Design : Strategies for Studying Behavior Change*
- Bereday, George Z. F. (1967): *Comparative Method in Education*, New Delhi: Oxford.
- Best, John W. & Kahn (2002), *Research in Education*, New Delhi: Prentice Hall of India.

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- Bhatnagar, R. P. (Ed.) (2002): *Readings in Methodology of Research in Education*, Meerut: Surya Publishers.
- Brouta, K.D. (1989): *Experimental Design in Behavioural Research* Wiley Eastern limited, New Delhi
- Bryman, Alan (2007): *Qualitative Research*, New Delhi: Sage.
- Carr, E. H. (1971): *What is History*, London: Penguin.
- Drew, Clifford J. & Michael L. Hardman (1985): *Designing and Conducting Behavioral Research* Program Press, New York
- Edwards, Allen L. (1971): *Experimental Design in Psychological Research* Amerind Publishing co. Pvt. Ltd. New Delhi
- Freeman, Frank S. (1965): *Theory and Practice of Psychological Theory*, New Delhi: Oxford.
- Garette, H. E. (1981): *Statistics in Psychology and Education*, Bombay: Vakils, Fetter and Simons, Ltd.
- Gibaldi, Joseph (2004): *Handbook for Writers of Research Papers*, New Delhi: East West Press.
- Guilford, J. P. & B. Fruchter (1978): *Fundamental Studies in Psychology and Education*, London: McGraw Hill.
- Kaul, Lokesh (2007): *Methodology of Educational Research*, Vikas Publishing HGouse, Pvt. Ltd.
- Kerlinger, F. N. (1973): *Foundations of Behavioral Research*, New Delhi: Holt Rinehart.
- Knowles, J. G. & Ardra L. Code (2008): *Handbook of the Arts in Qualitative Research*, New Delhi: Sage.
- Kothari, C. R. (2008): *Research Methodology Methods and Techniques (Second Edition)*, New Age International Publishers, New Delhi.
- Martuza, Victor, R. (1977): *Applying Norm Referenced and Criterion Referenced Measurment in Education* Allyn & Becon inc, Boston.
- Miller, D. C. & Neil J. Salkind (2008): *Research Design and Social Measurement*, New Delhi: Sage.
- Mouley, George J. (1970): *The Science of Educational Research*, New York: Van Nostrand.
- Singh, Pritam (2005): *Measurement and Evaluation*, New Delhi: Doaba House.
- Thomers, R. M. W. (1978): *An Introduction to Educational Research*, New York: Mac Milan.
- Thorndike, R. L. and Elizabeth P. Hgen (1979): *Measurement and Evaluation in Psychology and Education*, New Delhi: Wiley Eastern, Ltd.
- Verma, M. (1965): *An Introduction to Educational and Psychological Research*, Bombay: Asia Publishing Home.
- Wagner, William E. (2006): *Using SPSS for Social Statistics and Research Method.*

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