Siddharth University, Kapilvastu, Siddharthnagar, UP

Syllabus of Pre –Ph.D. Course Work
Subject: TEACHER EDUCATION

Course Code –   Credit - 3

PAPER – III

BASICS OF RESEARCH IN TEACHER EDUCATION

Course Objectives-

To enable prospective researchers to understand –

1. Meaning, need and classification of educational research.
2. Research design hypothesis and various tools and taste for collection of data in different types of educational research.
3. Selection of problems and sampling.

Course Content –

Unit-I: Fundamentals of Research: Meaning, Need and Types

Unit-II: Selection of Research Problem: Meaning, Characteristics, Evaluation, Statement, Delimitations, And Operational Definitions

Unit-III: Hypothesis: Meaning, Need, Types, Testing of Hypothesis, Characteristics of a good hypothesis

Unit-IV: Research Designs: Meaning, Purpose, Types, Criteria

Unit-V: Research Tools and Data Collection: Characteristics of a good tools, Types and techniques of tools, Construction of tools or test, Parametric & non-parametric, Chi square test, t- test, ANOVA

Unit-VI: Sample and Population: Concept of sample and population, Methods of sampling, Factors to be kept in view during sampling, Sample errors and its reducing

Recommended Books:

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

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PAPER – IV

Computer Applications in Educational Research

Course Objectives-

To enable prospective researchers to understand-

1. The world of computers and their application in educational research
2. The process of practical experiences in educational research

Course Content –

Unit – I: Basic Tools of Data Representation

    (i)   MS-Word, Google Docs
    (ii)   Microsoft Excel, Google Sheets
    (iii)   Microsoft PowerPoint, Google Slides
    (iv)   Email uses and etiquette
    (v)   Adobe PageMaker

Unit – II: Collection of Information through Internet

    (i)   Search Engines
    (ii)   Google Scholars
    (iii)   Search of Journals through jstore, Scopus, Research Hub

Unit – III: Collection of tools, Review, Referencing and Analysis of Data

    (i)   Google forms, Surveymonkey, Qualtrics
    (ii)   Zotero, Mendeley (Referencing)
    (iii)   SPSS, STATA, Excel and R

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(iv)   Data coding, thematic analysis and software tools for qualitative data through NVivo

Recommended Books-

1. Sinha,Priti and Pradeep K.:Computer Fundamentals,BPB Publications,Noida,U.P.
2. Dr.Ahamad,Jasim and Shaid:Computer Applications in Education,Neelkamal Prakashan,Hyderabad
3. Rajaraman,V.:Fundamentals of Computers,Prentice Hall India,2003
4. Andrews S. Tanenbaum Computer Networks, Prentice hall of India

28.3.25