

# **Veer Bahadur Singh Purvanchal University, Jaunpur**



**CBCS SYLLABUS FOR**  
**PRE Ph. D. COURSE WORK IN EDUCATION**  
**DEPARTMENT OF EDUCATION**  
**2022**

## Syllabus of Course Work for Ph.D. in Education

| Course | Course Code | Paper Title   | Theory | Credits |
|--------|-------------|---|--------|---------|
| I      | E010101T    | Research Methodology  | Theory | 6       |
| II     | E010102T    | Qualitative Research and Statistical Packages for Data Analysis | Theory | 6       |
| III    | E010103T    | ICT & Research Ethics   | Theory | 4       |

### Syllabus Developed By :

| S.No | Name                       | Designation         | Department | University/ College                      |
|------|----------------------------|---------------------|------------|--|
| 01   | Dr. Sunil Kumar Singh      | Professor           | Education  | B.H.U. Varanasi                          |
| 02   | Dr. Rajendra Prasad        | Professor           | Education  | S.G.R.P.G.College, Dobhi, Jaunpur        |
| 03   | Dr. Akanksha Singh         | Associate Professor | Education  | Allahabad University                     |
| 04   | Dr. Brijesh Kumar Mishra   | Associate Professor | Education  | Bayalasi P.G. College, Jalalpur, Jaunpur |
| 05   | Dr. Mayanand Upadhyay      | Associate Professor | Education  | R.S.K.D.P,G, College, Jaunpur            |
| 06   | Dr. Rajendra Kumar Jaiswal | Assistant Professor | Education  | S.G.R.P.G.College, Dobhi, Jaunpur        |
| 07   | Dr. Kusum Lata Patel       | Assistant Professor | Education  | T.D.College, Jaunpur                     |

Guidelines for Ph. D. Course Work in Education The course work is prerequisite for Ph.D. preparation. The duration of the course work will be of one semester. The course work shall be of 16 credits and shall consist of 03 courses. Course-1: E010101 : Research Methodology, Course-II: E010102 : Qualitative Research and Statistical Packages for Data Analysis Course-III : **E010103** : ICT & Cyber Ethics in Research will be compulsory for all.

### **PROGRAMM SPECIFIC OUTCOMES:**

1. Scholars shall understand the basic framework and nature of research in education. Scholars shall know analysing information, documentation, articulation and exchange of ideas and put forward their views and defend them in open sessions with peers.
2. Scholars shall know how to select a good problem for research and formulate it.
3. Scholars shall understand the procedure of data collection and analysis in quantitative as well as in qualitative studies.
4. Scholars shall understand the procedure of construction of research tools and analysis of data through advance statistical techniques.
5. Scholars shall understand the nature, need and issues of research and publication ethics.

# SYLLABUS DETAILS

Ph.D. Course Work in Education

## **COURSE-I**

**Paper Code -E 010101T      Research Methodology**

**Credits –06**

**Marks : 100 (Theory 70+Sessional 30)**

### **Unit I : Conceptual Framework of Educational Research**

- Research as a Process of Acquiring Knowledge
- Meaning, Nature and Scope of Educational Research
- Types of Educational Research: Quantitative Descriptive, Historical / Philosophical, Developmental, Casual comparative, Correlational, Experimental (Weak, true and quasi-experimental and Action Research.
- Qualitative research: Phenomenology, Ethnography, Case Study, Grounded Theory, Narrative Analysis. (Purpose, Characteristics, Steps with common errors committed in planning and conducting the research).

### **Unit II: Planning of Good Research/Preparing Research Proposal :**

- Formulation of the problem for research (Sources, Specification, Forming Research Questions, problem-analysis procedures, evaluation of the Problem)
- Building Rationale for the Study (Review of related literature, Identifying the emerging trends from the review, building a strong rationale for selecting the problem.
- Specifying objectives and hypotheses of the Study.
- Choosing appropriate design and stating the procedure (Selecting appropriate methods, instruments/tools/techniques, Deciding about the subjects for the study, conditions for conducting the study including procedures of data collection and data-processing).
- Operational definitions of the concepts and terms used (with the statements of underlying assumptions, perceived limitations and specific delimitations of the study).

### **Unit III : Tools & Techniques of Educational Research:**

- Tools, preparing, piloting and finalizing.
  - Tests, Tasks, Attitude Scales, Check lists Questionnaires/ Opinionative , Interview Schedules for interview and observation, Inventory, Semantic Differentiate Scale.
  - Use of ICT
- Techniques Observation, Interview, focused Group Discussion, Ethnography, Document Study, Anecdotal. Role play and Simulation, Case Study

### **Unit IV : Research Design, Sampling and Hypothesis Testing**

- Research Design :Concept and Type
- Sampling -Types and Techniques of sampling
- Hypothesis and Testing of Hypothesis
  - Sources of Hypotheses
  - Type of Hypotheses (Null, Directional, Statistics)
  - Characteristics of good hypothesis
  - Hypothesis Testing and Theory
  - Errors in Testing Hypothesis

### **Unit V: Mixed method research:**

- Pragmatism and mixed method research
- Types of mixed method research designs and sampling
- Data analysis in mixed method designs
- Writing mixed method research report

### **Unit VI : Preparation of Research Report**

- General Guidelines: format, language style, bibliography and appendices
- Format of Research Report (Journal Article, Thesis and Dissertation, Paper at Professional Conferences)
- Preparation of the Manuscript
- Writing style
- APA Reference Style

- Preparation of summary and abstract
- Evaluating and Finalizing the Report (Including the process of converting dissertations and theses for publication as a journal article)
- Sessionals: 1. Preparation and Presentation of Research Proposal (20 Marks)  
2. Review of one Research Article from Refereed Journal (10 Marks)

### **Suggested Readings :**

- Anfara, Vincent & Mertz Norma T. (2006). Theoretical Frameworks in Qualitative Research. SAGE.
- Johnson, B.& Christensen, L.,(2011) : Educational Research (4<sup>th</sup> Ed.) New Delhi : SAGE.
- Best J.W. (1986) Research in Education, New Delhi: Prentice Hall of India Pvt. Ltd.
- Borg, W.R. and Gall, M.D. (1983) Educational Research – An Introduction, New York, Longman, Inc.
- Buch, M.B. (1978) A Survey of Educational Research, CASE, The M.S. University Barodara.
- Broota, K.D., Experimental design in behavioural sciences, New age international publishing house, New Delhi.
- Chohan,L., Manion, L.& Morrison ,K. (2007) Research method in education (6th edition) Routledge ,London.
- Elliott, Jane (2005).Using Narrative in Social Research: Qualitative and Quantitative Approaches. SAGE.
- Fraenkel, J.R., Wallen, N.E. (1983) How to Design and Evaluate Research in Education, Singapore: McGraw Hill, Inc.
- Gravetter. F.J. & Wallanau, C.B. (2002). Essentials of Statistics for the Behavioural Sciences (4th edition) Australia, Wodsworth.
- Grbich, Carol (2006). Qualitative Data Analysis: An Introduction. SAGE Publication India Privet Limited.
- Gupta, Santosh (1983) Research Methodology and Statistical Techniques, New Delhi : Deep and Deep Publisher.
- Kerlinger, F.N. (1973) Foundations of Behavioural Research, New York : Holt, Rinehart and Winston.
- Kaul, Lokesh (1984) Methodology of Educational Research, New Delhi : Vikas Publications.

- Leary, M.R. (2004). Introduction to Behavioural research Methods (4th edition) Boston: Pearson Prentice hall
- Lichtman, Marilyn (2006). Qualitative Research in Education-A User Guide. SAGE Publication.
- Singh, S.K. (ed.). Survey of Researches in Education, Vol.1 2,3, Faculty of Education AAE, BHU, Varanasi (Print in online)
- Srivastava, G.N.P. (1994) Advanced Research Methodology, New Delhi : Radha Publications.
- Sidhu, K.S. (1987) Methodology of Research in Education, New Delhi: Sterling Publishers Pvt. Ltd.
- Travers, R.M.W. (1969) An Introduction to Educational Research, New Delhi: Sterling Publishers Pvt. Ltd.
- Salkind, N.J. (2006). Exploring Research (Sixth Edition) NJ: Pearson Prentice Hall
- Wiersma, W.(2000). Research Methods in Education. (7th edition) Allyn & Bacon.

#### **ONLINE JOURNALS ;**

1. **INDIAN EDUCATIONAL REVIEW ;**  
<http://www.ncert.nic.in/publication/journal/journals.html>
2. **Wile online library :** <http://onlinelibrary.wiley.com/journal>
3. **Directory of open Access Journals in Education :**  
<http://www.ergobservatory.info/ejdirectory.html>
4. <http://www.educ.cam.ac.uk/library/24hr/journals>

## COURSE -II

Paper Code -E010102T **Qualitative Research and Statistical Packages for Data Analysis**

**Credits –06**

**Marks : 100 (Theory 70+Sessional 30)**

### **Unit I : Understanding Qualitative Research**

- Qualitative Research: Genesis, Meaning and scope.
- Theoretical perspectives in qualitative research: interpretative, critical, post modern
- General structure of plan and proposal

### **Unit II : Data collection in qualitative research**

#### **• Interview:**

- Types of interview and interview situations
- Interview schedule: good practises and types of questions in interview, Importance of piloting in making interview schedule, learning to use interrogatives effectively.
- Sequence of events during interviewing
- Other dynamics of interviewing: researched power relations, intentionality, etc.

#### **• Observation:**

- Varieties of observation
- Negotiating access: role of gate-keepers and key informants
- Front management
- Perparing for observation
- Importance of recording data and interpretations separately
- Other important dynamics of observation.

#### **• Focus Group discussion**

### **Unit III : Data analysis, representation, Interpretation and writing qualitative research report :**

- Inductive and deductive qualitative analysis.
- Data analysis spiral

- Segmenting, coding , developing categories and creating hierarchical category systems.

#### **Unit IV : Statistics for Data Analysis**

- Measures of Central Tendency and dispersion
- Analysis of Variance (ANOVA), Analysis of Covariance (ANCOVA) and Partial Correlation, Multivariate analysis, Multivariate Regression, Factor analysis, Structural Equation Modelling.

#### **Unit V : Introduction about Qualitative Analysis and its application**

- Development of a Data sheet on the basis of Simulated Qualitative data collection (Observation / Interview etc.) and its analysis and interpretation using ICT.

#### **Unit VI : Use of Computer for data analysis ( Workshop made)**

- Twelve Days workshop on application of Quantitative and Qualitative Software Packages for Data Analysis, EXCEL, SPSS, SAS, R, MINITAB .

- **Sessional:** Conduction of a case study based on observation and interview. Preparation and presentation of report of case study.

#### **Suggested Readings :**

- Pallant (2011). SPSS Survival Manual : A step by step guide to data analysis using SPSS, 4<sup>th</sup> edition. Allen & Unwin, Crows Nest.
- Best J.W. (1986) : Research in Education, New Delhi: Prentice Hall of India Pvt. Ltd.
- Cresswell, J.W. (1997): Qualitative Inquiry and Research Design ; Choosing among five Tradations, New Delhi: Sage Publication
- Denzin, N. K. & Lincoln, Y. S.(2005) : The Sage Handbook of Qualitative Research (3<sup>rd</sup>ed.) London : Sage Publication.
- Johnson, B and Christensen, L(2012) : Educational Research Quantitative, Quantitative and Mixed approaches. New Delhi: Sage Publication
- Patton, M.Q. (2002) : Quantitative Research and Educational Methods (3<sup>rd</sup>ed.). Thousand Oaks, CA: Sage.



## COURSE -III

Paper Code -E010103T      **ICT & Research Ethics**

Credits –04

Marks : 100 (**Theory 70+Sessional 30**)

### **UNIT I : ICT and Research**

- ICT in Research
- Computer Ethics & Security Policies
- Guidelines to choose Web Browsers
- Security measures for using Web Browsers

### **UNIT II : e-sources in Research**

- Open sources
- Electronic Library System
- Online tools for Research
- E- Content: Guidelines and creation

### **UNIT III : Concepts in Research Concept of**

- Peer Reviewed, Scholarly journal, Refereed Journal, Impact factor, Q-Index, H-Index, Target Journal, Online Submission, Copy Right transfer, Meta data, Institutional Repository, Scopus Index, ISSN, ISBN, Research Gate, UGC CARE list, ERIC, Internet archives, J-store, Shodh Ganga, Inflibnet, Google Scholar, Online data base-Manupatra, ProQuest, Ulrichsweb, Citation Index, Dissertation Abstracts International

### **UNIT IV : Research Ethics**

- Ethics in Writing
  - Academic Integrity
  - Intellectual Property Rights
  - Plagiarism Policies, Penalties and Consequences
  - Features and Functionalities of Anti-Plagiarism Software
- **Sessional:** Writing a research article in at least 800 words, conducting the plagiarism check and submitting the report with proper analysis and improvement of the first written articles.

## **Suggested Readings :**

- **Nair, Ravindran suja and Jose Manuel Saiz-Alvarez** : Ethics, Entrepreneurship and Governance in Higher Education. IGI Global, Information Science Reference, Hershey,USA.
- **Strike, K.A.& Egan, K. (1978)** : Ethics and Educational Policy. London:  
Routledge and Kagan Paul
- **Oliver, P. (2010)**: The Students Guide to Research Ethics (2<sup>nd</sup> ed.), New York:  
open university Press
- **Sykes, G., Schicidr,B.& Plank, D.N. (2009)** : Hand Book Of Educational  
Policy Research. New York:  
Routledge
- **Wile online library** : <http://onlinelibrary.wiley.com/journal>
- <http://www.educ.cam.ac.uk/library/24hr/journals>.