



# माँ विन्ध्यवासिनी विश्वविद्यालय, मीरजापुर

Maa Vindhyavasini University, Mirzapur

Website: <http://mvvu.ac.in>

e-mail : [reg.mvvu@gmail.com](mailto:reg.mvvu@gmail.com)

## Pre Ph.D. Coursework Syllabus for

Doctor of Philosophy (Ph.D.) in Education  
(Effective from the Academic Session: 2022-23)

Department of Education

Faculty of Education

Course Code	Paper Title	Theory/ Project	Credit	Max. Marks
PED 101	Research Methodology	Theory	4	100
PED 102	A. Research and Publication Ethics	Theory	2	50
	B. Annotated Bibliography and Review of related Researches in Concern area	Project	2	50
PED 103	Research Proposal	Project	4	100
Total			12	300

### PROGRAMME OBJECTIVES

The programme offered by the Department of Education is designed for the prospective research students pursuing Pre Ph.D. Coursework. The objective of the programme is to make students to understand contemporary educational issues and enable them to use research methods to discuss, analysis, and evaluate those issues. This programme also focuses on developing and augmenting analytical and writing skills of students.

### PROGRAMME SPECIFIC OUTCOMES (PSOs)

After completing this programme, Students will be able to-

PSO 1	Acquainted with various research approaches in the field of education
PSO 2	Understand various research techniques
PSO 3	Get knowledge about correct usage of data
PSO 4	Learn concept of plagiarism
PSO 5	Develop the high standard of Research ethics
PSO 6	Have working knowledge of indexing and citation

### SCHEME OF EVALUATION

1. Course (PED-101) Research Methodology to be evaluated through written examination of 100 Marks.
2. Course (PED-102) Part- A to be evaluated through written examination of 50 Marks.  
Course (PED-102) Part- B to be evaluated through internal assessment of 50 Marks.
3. Course (PED-103) Research Proposal- Preparation and Presentation out of 100 (50+50) marks to be evaluated through Viva-Voce.

## Paper-I Research Methodology

Course Code	Paper Title	Theory/Project	Credit	Max. Marks
PED-101	Research Methodology	Theory	4	100

### Objectives:

- ↳ To provide knowledge about knowledge and its relation with research.
- ↳ To understand different research approaches.
- ↳ To provide information about development of research tools.
- ↳ To provide skills about how to use data in research.

### Course Outcome:

After completion of this course, researchers will be able to-

- ↳ Know about knowledge and its relation with research.
- ↳ Learn the concept of qualitative and quantitative research.
- ↳ Develop research tools and their standardization process.
- ↳ Understand and use various research methods according to the requirement of research problem.

### Course Content: Research Methodology

#### UNIT- I

- A. Knowledge: Concept, Nature and Types (A priori & posteriori), Methods of acquiring knowledge, Positivist and Anti-Positivist Approaches to knowledge creation. Skepticism, Rationalism and empiricism, Characteristics and steps involved in scientific method.
- B. Educational Research: Meaning, Types of Research-Fundamental, Applied and Action, its role in improving educational practices, thrust area of educational research, deriving the objective of study, review of related literature for identifying knowledge gap, statement of the research problem, Variable: Concepts, Types, identifying and defining variable in operational term.

#### UNIT- II

- A. Quantitative Research: Concept and its Importance in Education, Types of Quantitative Research- Descriptive, Experimental, Ex-post-facto, experimental design (True & Quasi).  
Population, Sample & Sampling technique, probability & non-probability sampling methods, Hypotheses: Meaning, characteristics and types, Bases of hypotheses, formulation of hypotheses/research question, Hypothesis testing.
- B. Qualitative Research: Concept and its Importance in Education, Types of Qualitative Research- Historical, Philosophical, Case Study, Ethnographic.

#### UNIT- III

- A. Research Tool- Characteristics of good research tool, Types, Construction procedure of test and scale.
- B. Standardization of research tool- Estimating Reliability and Validity, Developing Norms.

#### UNIT- IV

- A. Statistical techniques for data analysis: Parametric and Non-Parametric Test, Descriptive statistics and Inferential statistics with special reference to t-test, Analysis of variance (ANOVA), Chi-square test and Mann-Whitney test. Types of error.  
Correlation: meaning, calculation and interpretation of correlation by Spearman and Pearson's methods, Computer Assisted data analysis-SPSS.
- B. Preparation of Research Report: format, style, bibliography and appendices.

**Mapping :**

\ Course Outcomes	1	2	3	4
Manning of Course content with Course outcome	Unit 1	Unit 2	Unit 3	Unit 4

**Selected Readings:**

- );- Best, John W. (1993) : Research in Education, Prentice Hall Incorporation, New Delhi.
- ;... Corey, Stephen M. (1953) : Action Research to Improve School Practices, Bureau of Publication, Teachers college, Columbia University, New York.
- ;... Dalen, Van & Deobold B. Van (1973) : Understanding Educational Research, An Introduction (3rd Edition) McGraw Hill Book Company, New York.
- ;... Ferguson, G.A. (1981) : Statistical Analysis in Psychology and Education, McGraw Hill International Book company, New York.
- ;... Garrett, H.E. (1981) : Statistics in Psychology and Education, Vakis Feffers and Simons, Pvt. Ltd. Bombay.
- ;... Guilford, J.P. (1986) : Fundamental of statistics in Psychology and Education, McGraw Hill Book company, New York.
- ;... Kerlinger, Fred N. (1983) : Foundations of Behavioural Research, Surjeet Publication, 7 K Kolhapur Road, Kamala Nagar, New Delhi.
- ;... Kothari, C.R. (2006) : Quantitative Techniques, Second reprint, Vikas Publishing House PVT. Ltd. New Delhi.
- ;... Koul, Lokesh (1990) : Methodology of Educational Research, Vikash Publishing House PVT. Ltd. New Delhi.
- Pandey, K.P. (2005) : Fundamentals of Educational Research; Vishwavidyalaya Prakashan, Varanasi.
- Sharma, R.A. (1993) : Fundamentals of Educational Research; Loyal Book Depot, Meerut.
- Travers, M.W. (1961) : An Introduction to Educational Research, The MacMillan Company, New York.
- ;... Tuckman, Bruce W. (1978) : Conducting Educational Research, New York, Harcourt Bruce Jovanovich, Inc.
- Verma M. (1965) : An Introduction to Educational and Psychological Research, Asia Publishing House.

## Paper- II (Part A&B)

Course Code	Paper Title	Theory/Project	Credit	Max. Marks
PED-102	A. Research and Publication Ethics	Theory	2	50
	B. Annotated Bibliography and Review of related Researches in Concern area	Project	2	50
<p>Objectives:</p> <ol style="list-style-type: none"> <li>To know the research Ethics.</li> <li>To provide knowledge about indexing database.</li> </ol> <p>Course Outcome:</p> <p>After completion of this course, researchers will be able to-</p> <ul style="list-style-type: none"> <li>&gt; Get knowledge about Research Publication, Ethics &amp; Indexing database.</li> <li>&gt; Learn about Annotated Bibliography and Review of related Researches.</li> </ul> <p>Course Content: Part-A Research and Publication Ethics <span style="float: right;">Max. Marks 50</span></p>				

### UNIT-I

- A. Research Ethics with respect to science and Intellectual honesty and research integrity copyright Scientific misconduct: falsification, fabrication and Plagiarism (FFP) Redundant Publication: duplication and overlapping publications salami slicing Selective reporting and misrepresentation of data.
- B. Publication Ethics: definition, introduction and importance Best practice/standard setting initiative and guidelines: COPE, WAME, etc. Conflict of interest.

### UNIT- II

- A. Publication misconduct: definition, concept, problems that leads to unethical behaviour and viceversa, type, Violation of publication ethics, authorship and contributorship Identification of publication misconduct, complaint and appeals, Predatory publishers and journal •, Avoiding Plagiarism. Preparing documents for MoUs, Confidentiality Agreements, Use of plagiarism software like Turnitin, Urkund and other open source software tools.
- B. Indexing database, Citation database: web of science, Scopus, etc., Impact factor of Journal m; per journal citation report, SNIP, SJR, IPP, Cite Score, Metrics: h-index, g-index, i-10 index, Altmetrics.

### Part-B

Max. Marks 50

### | Annotated Bibliography and Review of related Researches in Concern area |

Annotated bibliography is usually a summary or description of the text which involves brief outline of the author's main points as well as providing an overview of the approach they have used. Research scholar will have to write 06 Annotated bibliographies (02 Books, 02 Theses & 02 Research Journals).

Review of related research is a comprehensive review of the research pertaining to a specific topic or research question. Research scholar will write minimum 20 reviews.

**Mapping :**

Course Outcomes

Mapping of Course content with Course outcome

Unit I

2

Unit 2

**Selected Readings:**

Chaudhari, Nimit, Sunayana & Prakash Monika, (2024), *Research and Publication Ethics*, Routledge India.

Kishor, S.B., Kushwaha A.S., Geetanjali, J, (2023) *Research and Publication Ethics*, Das Ganu Prakshan, Nagpur.

Katariya, Surendra, Pandey Sri Ram (2023) *Shodh evam Prakashan Nitishastra*, RBSA Publications.

Singh, Upendra Pratap; Ahlawal, Shakshi; Sharma, Sushma, (2023) *Research and Publication Ethics*, Sultan Chandra & sons Publication.

Kumar Ranjit (2023), *Research and Publication Ethics*, Notion Press, Mumbai.

Aahuja V.K. (2023), *Research and Publication Ethics*, National Law University Press, Assam.

Paramasivin C. (2018), *Research and Publication Ethics*, Charulatha Publication, Chennai.

Sharma Yogita (2016), *Text Book of Research and Publication*, Kalyani Publication, New Delhi.

Yadav Santosh Kumar (2015), *Research & Publication Ethics*, Springer New Delhi.

Verma V.K. (2010), *Text Book on Research and Publication Ethics*, Jaya Publication, New Delhi.

### Paper-III Research Proposal

Course Code	Paper Title	Theory/Project	Credit	Max.Marks
PED-103	Research Proposal	Project	4	100 (50+50)*
<p><b>Course Outcome:</b></p> <p>After completion of this course, students will be able to-            1. Understand the structure of qualitative and quantitative research proposal.</p> <p><b>Course Content:</b></p> <p>This component is intended to develop necessary preparedness and competencies for undertaking research and research projects in the discipline of education.</p> <p><b>Formulation of Research proposal &amp; presentation</b></p> <p>This is parts directed towards helping students in formulation of research proposal and presentation thereon. The course transactor will take up graded exercises for development of research proposal on a theme chosen by a student. The research proposal will have a following structure-</p> <ul style="list-style-type: none"> <li>• The research theme.</li> <li>• Background of the study.</li> <li>• Research Gap</li> <li>• Research Question.</li> <li>• Statement of research problem.</li> <li>• Hypothesis and rationale for its formulation.</li> <li>• Objectives of the proposed study.</li> <li>• Research design.</li> <li>• Population and Sampling techniques to be employed</li> <li>• Research tools to be used</li> <li>• Data analysis procedure</li> <li>• A tentative chapter scheme for the presentation of a dissertation</li> <li>• Bibliography</li> </ul> <p><b>Note-</b></p> <ol style="list-style-type: none"> <li>1 For research problem involving the Qualitative paradigm, the structure of the proposal as specified above will be suitably amended.</li> <li>2 Each proposal developed by the student will have to be presented in a seminar with adequate scope for critiquing-peer review and expert review.</li> <li>3 Both research proposal development and presentations thereon will be evaluated out of 100 (50 +50) marks by an expert / board of examiners as deemed desirable and the appointment of such experts may be external / internal depending on the discretion of the Head of Department of Education of the University.</li> </ol>				
<p><b>Research Proposal on any Current Educational Issue.</b>            Project Report will be prepared using Research Techniques and Survey.</p>				
<p>*50 Marks for Research Proposal preparation and 50 Marks for Research proposal presentation and viva-voce.</p>				