The Scheme & Syllabus

for

Ph.D. Course work

in the subject of

Education

w.e.f. (2022-23)

as per

MJPRU Ph.D. Ordinance- 2020

&

New Education Policy (NEP-2020)

Department of B.Ed./M.Ed. (IASE)
Faculty of Education & Allied Sciences
MJP Rohilkhand University, Bareilly- 243 006,
INDIA

Ph.D. Coursework in the subject of Education
(Applicable to both, Full-time and Part-time Ph.D. degrees)

1. Introduction:

The department of B.Ed./M.Ed. (IASE) under the Faculty of Education & Allied Sciences is offering a Ph.D. Programme in Education. Department offers Ph.D. in Teacher Education, Higher Education, Secondary Education, Primary Education, Curriculum Studies, Guidance and Counselling, Environmental and Population Education, Peace and Value Education, Comparative Education, Inclusive and Special Education, Indian Languages, Arts, and Culture, Vocational Education.

As Per the Ph.D. ordinance -2020, provision for one-semester course work in the related field of research for all candidates admitted through direct admission and Research Eligibility Test (RET) in the full-time or part-time Ph.D. course of the university. The full-time/regular and part-time Ph.D. scholar has to do the one semester Ph.D. course work as per the Ph.D. ordinance-2020 before finally being admitted to the Ph.D. (full-time/part-time) course.

2. Scheme of The Course Work:

The course work shall be treated as pre-Ph.D. preparation. It will consist of two parts. The first part comprises two theory papers. The contents of the first paper shall be on *Research Methodology and Research Publication Ethics*, including quantitative methods, computer applications, and other techniques/ methods specific to the broad subject area and research ethics. The second paper would include *Emerging Trends in Educational Research*. There will be another part of the coursework consists of a literature survey. The candidate shall be required to conduct an exhaustive literature survey and prepare a review report covering a literature survey of the last ten years in the area specific to the candidate's/supervisor's chosen research area. An approved external expert will evaluate the prepared review report.

The details of course work are given in the following table:

PART-A		PART-B
Paper-I: Research Methodology and Research Publication Ethics (as per UGC guidelines)	Paper-II: Emerging Trends in Educational Research	Paper-III: Review of Literature Report (RLR).
Maximum Marks: 100	Maximum marks: 100	Maximum marks: 50
Credit Points:04	Credit Points:04	Credit Points:06

3. **Evaluation Scheme:**

Each theory paper of part-A (Paper-I and Paper II) shall be 100 marks. Out of 100 marks allocated to each theory paper, 70 marks shall be awarded based on the End Semester final written Examination conducted by the University. The rest 30 marks in each paper shall be awarded based on two mid-semester tests of 15 marks each conducted during the course work. To clear the course work, a student shall be required to score a minimum of 55% marks in each paper [Part-A (Paper-I&II) & Part-B]. The concerned course coordinator will conduct the mid-semester test and evaluation of the literature survey.

4. **List of Papers of Ph.D. Course Work:**

	Paper Number	Paper Code	Title
PART-A	Paper-I	EDPRES101	Research Methodology and Research Publication Ethics
	Paper-II (Online or offline)	EDPRES102	Emerging Trends in Educational Research
PART-B	Paper-III	EDPRES103	Review of Literature Report (RLR)

*Apart from the given course by the department following NPTEL (nptel.ac.in)/SWAYAM (swayam.gov.in), courses of at least Credit Points 04 are also allowed in place of Paper-II. The candidate has to choose the relevant course from the list below with the Course Coordinator's approval. Candidate has to follow the online course instructions and submit the result to the Course Coordinator at the end of the course:

Paper II (Select any one)	Paper Code	Paper Title	Available on
ONLINE MODE*	EDPRES102 (EL1)	Research Ethics and Plagiarism By Dr. Gaurav Singh | IGNOU https://onlinecourses.swayam2.ac.in/nou22_ge68/preview AND Effective Writing By Prof. Binod Mishra | IIT Roorkee https://onlinecourses.nptel.ac.in/noc20_hs06/preview	SWAYAM NPTEL
	EDPRES102 (EL2)	MCO-03: Research Methodology and Statistical Analysis By Dr. Subodh Kesharwani | IGNOU https://onlinecourses.swayam2.ac.in/nou21_cm03/preview	SWAYAM
	EDPRES102 (EL3)	Statistical Methods for Psychological Research-I By Dr. Jitendra Kumar Kushwaha | Assistant Professor at the Department of Psychology, Manipur University. https://onlinecourses.swayam2.ac.in/cec23_hs28/preview	SWAYAM
	EDPRES102 (EL4)	Philosophical Foundations of Social Research By Prof. Sambit Mallick | IIT Guwahati https://onlinecourses.nptel.ac.in/noc23_hs73/preview AND Research Methodology By Prof. Soumitro Banerjee | IISER Kolkata https://onlinecourses.nptel.ac.in/noc22_ge08/preview	NPTEL

*Online courses may be added in the future as per the requirement

5. **Syllabus of the Ph.D. Course Work:**

PAPER-I
Research Methodology and Research Publication Ethics

Subject Code: EDPRES101   **Credit:04**

Objectives-

- To familiarize the students with the nature of research in general and educational research in particular.
- To train the students to design and conduct a scientific inquiry.
- To familiarize students with using Web tools in the Research process
- To enable the students to prepare a research proposal.
- To enable the students to analyze the data and draw valid conclusions.
- To enable the students to write the research report.
- To enable the students to contribute research papers for educational journals, conferences, and seminars.
- To familiarize the students with plagiarism in research and publication.
- To familiarize the students with the research publication ethics.
- To enable the students to write the research report free from plagiarism.

UNIT I – Educational Research: Conceptual Framework

- Research: Concept, Nature, Need, and Scope of Educational Research
- Types of Research: Basic or Fundamental; Applied and Action Research; Qualitative, Quantitative, and Mixed Research.
- Qualitative Research Methods-Ethnomethodology, Phenomenology, and Case Studies
- Quantitative research Methods- Descriptive, Historical, Experimental

UNIT II – Procedural Aspects of Educational Research – I

- Identification and Definition of Research Problem; Delimitation of Research Problem.
- Variables: Types of Variables, Delineating and Operationalizing Variables.
- Framing of Research Questions and Formulation of Objectives.
- Assumptions and Hypotheses: Concept, Types, and Formulation Process.
- Review of Related Literature, Citation, Paraphrasing, and Referencing.
- Sample and Sampling Techniques.

UNIT III– Procedural Aspects of Educational Research – II

- Selection of Research Design: Historical, Descriptive, Field study, Experimental, Quasi-Experimental, and Ex-post facto.
- Research Tools: Questionnaires, Opinionnaires, Schedules, Scales, and Inventories.
- Validity of tools: Meaning, Types, and Assessment of Validity.
- Reliability of tools: Meaning, Types, Factors affecting reliability, Assessment of reliability
- Test Construction- Steps in constructing Achievement Test and Attitude Scale (Thurston's and Likert's Methods).
- Test Standardization- Meaning & Procedure, Item analysis of Achievement Test and Attitude scale.
- Development of various Norms and Grades.
- Preparation of Research Proposal & Writing of Research Report.

Unit IV- Statistical Techniques of Data Analysis

- Descriptive and Inferential Statistics. Hypothesis testing, Types of Errors
- Inferential Statistical Techniques: Parametric & Non-Parametric Tests, Selection of Relevant Tests
- T-test: concept, assumptions, calculation
- F- test: concept, assumptions, calculation
- Chi-Square test & Mann Whitney Test
- Correlation: Types and calculation
- Application of MS Excel for data analysis and graphical Presentations
- Use of SPSS: Overview

Unit V- Research Ethics

- Intellectual honesty and research integrity.
- Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP).
- Redundant publications: duplicate and overlapping publications.
- Selective reporting and misrepresentation of data.
- Testing plagiarism through Turnitin and Urkund.

Unit VI–Publication Ethics & Open Access Publishing

- Publication misconduct: definition, concept, Types, and Identification.
- Violation of publication ethics, authorship, and contributorship.
- Predatory publishers and journals practice.

- Open access publications and initiatives., SHERPA/ROMEO online resource to check publisher copyright & self-archiving policies.

Suggested Readings:

- Best, J.W. and James V. Kahn (1986) *Research in Education*, New Delhi: Prentice Hall of India
- Coburn, Peter at. al. (1982). *A practical guide to computers in Education*. California: Wesley Publishing Co.
- Engalh art, Max D. (1972) *Methods of Educational Research* Chicago: Rand McNally and Company
- Entwistle, N.J. (1974) *The Nature of Educational Research, Educational Studies A third level course, Methods of Educational inquiry- Block I.* Milton Kenya: The Open University Press
- Kothari, C. R. (2021)*Research Methodology – methods and techniques.* New Delhi: Wiley Eastern Ltd
- Edward, A.L. (1969), Technique of Attitude Scale Construction, Bombay: Vikils Fetter, and Simons.
- Good, C.V. (1972), Essential of Educational Research Methodology and Design, New York; Appleton Lentary crafts.
- Guilford, J.P. (1982), Psychometric Methods, New Delhi, Tata McGraw Hill.
- Black Thomas (2001) Understanding Social science Research, New Delhi Sage Publications
- Fern. Edward F. (2001) Advanced Focus Group Research, New Delhi: Sage Publications
- Galtung, Johan (1967) *Theory and Methods of social research*, London: George Allen and Unwin Ltd.
- Mariampolski, H. (2001) Qualitative Market Research – A Comprehensive Guide, New Delhi: Sage Publications India
- Mason, Emanuel J. and William J. Bramble. (1978) *Understanding and Conducting research. Application in Education and Behavioral Sciences.* New York: McGraw Hill Book Co.
- Mouly, George. J. (1964) *The Science of Educational research* New.
- Mitzel (Ed.) (1982) *Encyclopedia of Educational Research* Free Press
- MacIntyre, Alasdair (1967) A Short History of Ethics. London
- P. Chaddah, (2018) Ethics in Competitive Research: Do not get scooped; do not get plagiarized, ISBN: 978-9387480865
- National Academy of Sciences, National Academy of Engineering, and Institute of Medicine. (2009). On Being a scientist: A Guide to Responsible Conduct in Research: Third Edition. National Academies Press.
- Resnik, D.B. (2011). What is ethics in research & why is it important? National Institute of Environmental Health Sciences, 1-10. Retrieved from https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm

- Bcall, . (2012). Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. https://doi.org/10.1038/489179a
- Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN:978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf

PAPER-II

Emerging Trends in Educational Research

Subject Code- EDPRES102   **Credit:04**

Objectives-

- To familiarize the scholars with the research trends in Higher Education.
- To orient the scholars towards policy research.
- To acquaint the scholars with the emerging educational research trends.
- To enable the scholars to conduct the research in Pedagogical Practices.
- To equip the scholars to pursue technological research.
- To explore the new areas of research in Teacher Education.

UNIT I - Research in Higher Education

- Higher Education- Structure, Governance and their functions, Principle of Good Governance.
- Higher Education Institutions- State, Central, Deemed, International Universities and Institutions of National Importance.
- Liberalization, Privatization, and Globalization of Higher Education.
- Some Issues in Higher Education-Quality, Equality, Equity, Diversity, and Inclusion.
- Employability Skills- Interpersonal, Communication, Group Dynamics, Technological Skills, etc.

UNIT II- Policy and Programme Research

- Policies and Programmes related to Primary Education.
- Policies and Programmes related to Secondary Education.
- Policies and Programmes related to Higher Education.
- Policies and Programmes related to Teacher Education.
- NEP 2020-Recommendations and Suggestions for Educational Research.

UNIT III- Emerging Educational Research Trends

- Research Trends in Curriculum Studies.
- Research Trends in Guidance and Counselling.
- Research Trends in Environmental and Population Education.
- Research Trends in Peace and Value Education.
- Research Trends in Comparative Education.
- Research Trends in Inclusive and Special Education.
- Research Trends in Indian Languages, Arts, and Culture.
- Research Trends in Vocational Education.

UNIT IV- Researches in Pedagogical Practices

- Teaching Competencies and Modification of Teacher's behavior.
- Researches in Teaching &Learning: Instructional Methods, Classroom Practices.
- Researches on Curriculum & Textbooks.
- Emerging Trends in Educational Assessments.

UNIT V- Technological Research

- M-learning- Concept, Need, Characteristics, types, and applications
- E-learning- Concept, Need, Characteristics, types, and applications
- Technological Advances in Teaching Learning: AI, AR&VR
- Concepts in Online Education- OERs, MOOCs, Google Classroom
- E-instructional Material- Meaning, Types, and Advantages.
- Designing Procedure of E-instructional Material.
- Quality Parameters and usability of E-instructional Material.

UNIT VI- Research in Teacher Education

- Teacher Education Research- Contexts, Nature, and Problems.
- Teacher Education Apex Institutions- Teacher Education Universities, NCTE, NCERT, SCERT.
- Innovative Practices in Teacher Education.

Suggested Readings-

- Ace Jo (2010) Pedagogy and Practice: Teaching and Learning in Secondary Schools, DFES
- Agarwal J.C. (2009) Population Education New Delhi; Shipra Publication
- Best, J. W. &James V. Kahn (2009) Research in Education (10 Ed) New Delhi: Prentice Hall of India
- Clendenin D. J. & Jukka H. (2017) The SAGE Handbook of Research on Teacher Education. Canada: Sage Publication
- Coburn, P. et al. (1982) Practical Guide to Computers in Education. California: Wesley Publishing Co.
- Education of Children with Special Needs, Oxford University Press, New Delhi
- Entwistle, N. J. (1974) The Nature of Educational Research, Educational Studies A third level course. Methods of Educational Enquiry- Block I, Milton Kenya: The Open University Press
- Gary S. et al. (2009) Handbook of Education Policy Research New York; Routledge
- Gavriel S & Baruch N. (2002) Peace Education the Concept, Principles, and Practices Around the World, New York; Routledge
- Good, C.V. (1972), Essential of Educational Research Methodology and Design, New York; Appleton Lientery crafts.
- Inclusion in Education A Manual for School Management Committee, New Delhi; NCERT
- Kumar R. et al. (2019) Teacher Education in the 21st Century, Canada; Sage Publication
- Ministry of Human Resource Development (MHRD) (2006), Inclusive Education- Draft Action Plan for Inclusive Education of Children and Youth with Disabilities, New Delhi: MHRD.
- NCERT. 2005. National Curriculum Framework — 2005. National Council of Educational Research and Training, India: New Delhi.
- Palmer J & Neal Philip (1994) The Handbook of Environmental Education New York; Routledge
- Paul Chapman (2001) Theories of Inclusive Education., London. Publishing
- Perna W.L. (2022) Higher Education: Handbook of Theory and Research (Vol 38), Nature Switzerland; Springer Cham
- Randolph J.J. (2008) Multidisciplinary Methods in Educational Technology Research and Development HAMK:University of Applied Sciences; JULKAISIJA,Finland
- Report on Justice Verma Commission on Teacher Education (2012). Department of School Education and Literacy, Ministry of Human Resource Development, Government of India. Retrieved from http://mhrd.gov.in/sites/upload_files/mhrd/ files/document-reports/JVC%20Vol%201.pdf
- Sharma R.A. & Shikha Chaturvedi (2019) Environmental Education Meerut; R. Lall
- Solheim, I& Stolen, Ketel. (2007). Technology Research Explained.
- Srinivasan, Prakash. (2016). Comparative Education - Concept of Comparative Education.

- Taylor H.P. & Richards C.M. (1985) An Introduction to Curriculum Studies, New York: Routledge
- The Right of Children to Free and Compulsory Education Act, 2009. Ministry of Human Resource Development, Government of India, India: New Delhi.
- WERNER, D. 1994. Disabled Village Children. Voluntary Heal Association of India, New Delhi.
- WHO, 2003. The Physical School Environment: an essential component of a health-promoting school: The WHO's information series on school health document-2, WHO Document Production Services, Geneva, Switzerland.
- सिंह ए के (२०१७) मनोविज्ञान , समाजशास्त्र तथा शिक्षा में शोध विधियाँ , दिल्ली :मोतीलाल बनारसीदास
- पाल एच & राजेंद्र पाल (२०२२) विषयवास्तु विश्लेषण दिल्ली : हिंदी माध्यम कार्यन्वय निदेशालय , दिल्ली विश्वविद्यालय

PAPER II
Review of Literature Report (RLR)
Subject Code- EDPRES103   Credit:06

Review of Literature Report (RLR)

In this paper, the candidate shall be required to carry out an exhaustive literature survey and prepare a review covering a literature survey of the last ten years in the area specific to the candidate's/supervisor's chosen research area. The literature review project must be checked for plagiarism and comply with the university's plagiarism policy. The prepared and plagiarism checked review must be submitted to the Ph.D. Course Coordinator of the Concerned Subject. The evaluation of this paper will be done at the departmental level by the approved external expert. The format for the RLR will be the same as mentioned isn chapter 2 of Guidelines for writing Ph.D. Synopsis (available on university's website)

6. **End Semester Question Paper format:**
Paper-I (MM: 70): Total ten questions, out of which five questions are to be attempted. Question 1 will be of MCQ/Short answer type/True or False type and compulsory. Each question will be of 14 marks and may have sub-parts.

Paper-II (MM: 70): Total ten questions, out of which five are to be attempted. Question 1 will be MCQ/Short answer/True or False and compulsory. Each question will be of 14 marks and may have sub-parts.

(Prof. RASHMI AGARWAL)

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