

Doctor of Philosophy (PhD) In Library and Information Science

Year 2026-27

SYLLABUS




विभागाध्यक्ष
पुस्तकालय एवं सूचना विभाग विभाग
मखनलाल चतुर्वेदी राष्ट्रीय पत्रकारिता
एवं संचार विश्वविद्यालय, भोपाल (म.प्र.)

**Department of Library and Information Science
Makhanlal Chaturvedi National University of
Journalism and Communication, Bhopal (M.P.)**

About Ph.D. Coursework:

This course spans one semester and comprises four core papers: Research Methodology for Library and Information Science, Literature Review and Research Synopsis in Library and Information Science, Digital Technologies and emerging trends in LIS, Research and Publication Ethics and Dissertation. Teaching methods employed during the course include inquiry-based learning, group discussions, problem-solving, skill development, and KSA (Knowledge, Skills, and Abilities)-based instruction, enabling students to excel in their academic pursuits and make significant contributions to the field of Library and Information Science.

Scheme of Ph.D. Coursework:

S.N	Course of Study	Paper Numerical Unique	Class & Papers	Paper Title	Credit	Th	P	IA	Total
1.				Research Methodology for Library and Information Science	4	80	-	20	100
2.				Literature Review and Research Synopsis in Library and Information Science	4	80	-	20	100
3.				Digital Technologies and emerging trends in LIS	4	50	30	20	100
4-A				Research and Publication Ethics	2	25	15	10	50
4-B				Dissertation	2	-	40	10	50

A

विभागाध्यक्ष
पुस्तकालय एवं सूचना विज्ञान विभाग
महाराष्ट्र शासन, नवी मुंबई राष्ट्रीय पत्रकारिता
एवं सूचना विज्ञान विद्यालय, कोणार्ज (म.प्र.)

Paper - 1

Research Methodology for Library and Information Science

Marks: 80+20 = 100

OBJECTIVES:

- CO1: To develop students' ability to identify and formulate research problems, formulate a hypothesis, and select appropriate research designs for conducting sound research in LIS.
- CO2: To acquaint students with different research techniques, sampling strategies, and data collection tools relevant to Library and Information Science.
- CO3: To enable students to prepare, analyze and interpret research data through appropriate statistical and qualitative analysis techniques with valid conclusions.
- CO4: To develop students' competency in applying statistical tools and tests using statistical software.
- CO5: To train students in the structure, style, and writing of research reports and bibliographic referencing.

Unit-1: Research Foundation and Design

Research: Concept, Types (Basic, Applied, Action).

Formulation of Research Problem and Hypotheses.

Research Designs: Exploratory, Descriptive, and Experimental.

Unit-2: Data Collection & Metric Studies

Data Collection Tools: Questionnaires, Interviews, Observation, and Content Analysis.

Sampling Techniques: Probability and Non-Probability Methods; Sample Size Determination.

Metric Studies: Bibliometrics and Scientometrics.

Unit-3: Data Analysis

Descriptive Statistics: Measures of Central Tendency and Dispersion.

Inferential Statistics: Parametric & Non-Parametric Tests (t-test, Chi-Square, ANOVA).

Qualitative Analysis: Overview of Qualitative Interpretation Techniques.

Unit-4: Software Application & Data Visualization

Hands-on Data Analysis Tools: SPSS, Stata, MS-Excel etc.

Data Visualization: Tabular/Graphical Representation and Interpretation.

Formulating Conclusions and Summary.

Unit-5: Research Report Writing

Research Report: concepts, Structure, style, writing

Bibliographic Documentation: Footnotes, Endnotes, References and Bibliographic description.

References:

1. Aldrich, J. O. & Cunningham, J. B. (2015). Using IBM SPSS Statistics: An Interactive Hands-On Approach (2nd ed.). New Delhi: Sage Publications.
2. Creswell, J. W., & Creswell, J. D. (2014). Research design: Qualitative, quantitative and mixed methods approaches. California: Sage Publishing.
3. Kothari, C.R. (2004). Research methodology: Methods and techniques (2nded.). New Delhi: New Age International.
4. Kumar, R. (2014). Research methodology: A step-by-step guide for beginners. (4thed.). London: Sage Publishing.

विभागाध्यक्ष

पुस्तकालय एवं सूचना विज्ञान विभाग
माखनमाल वर्तुणदी सप्तीय पत्रकारिता
एन साचार विश्वविद्यालय, सोमना (म.प्र.)

5. Punch, K.F. (2013). Introduction to social research: Quantitative and qualitative approach (3rd ed.). London: Sage Publishing.
6. Busha, C.H., & Harter, S.P. (1980). Research methods in librarianship: Techniques and interpretation. New York: Academic Press.
7. Kumar, K. (1999). Research methods in library and information science. New Delhi: HarAnand Publications.
8. Silipigni, L., & Powell, R.R. (2010). Basic research methods for librarians (5th ed.). California: Libraries Unlimited.
9. Bhalla, Ranjit Kaur and Puri, Mohit (2019). Advanced Research Methodology. New Delhi: Kanishka Publishers.
10. Chandra, S.S. Vinod and Hareendran, S. Anand(2019). Research Methodology. New Delhi: Pearson.
11. Pal, Ashok and others (2020). Application of Webometrics on Modern Information Research. New Delhi: Ess Ess Publication.
12. Pal, Ashok and Kar, Sanjoy(2023). Fundamentals of Webometrics. New Delhi: Ess Ess Publication.
13. कोठारी, सी. आर., गर्ग, गौरव, एवं अग्रवाल, एम. के. (2022)। रिसर्च मेथोडोलॉजी: मेथड्स एंड टेक्नीक्स. दिल्ली : न्यू एज इंटरनेशनल पब्लिशर्स
14. मंगल, एस. के., एवं मंगल, शुभा। (2017)। व्यावहारिक विज्ञानों में अनुसंधान विधियाँ. दिल्ली: पीएचआई लर्निंग।
15. मुखर्जी, रवींद्रनाथ, अग्रवाल, भरत, एवं अन्य। (2024). समाजशास्त्र में शोध पद्धतियाँ: आगरा : एस बी पी डी प्रकाशन
16. राय, पारसनाथ। (2020). अनुसंधान परिचय. आगरा : लक्ष्मी नारायण अग्रवाल प्रकाशन
17. रावत, हरिकृष्ण। (2013). सामाजिक शोध की विधियाँ. जयपुर : रावत पब्लिकेशन्स
18. शर्मा, वीरेंद्र प्रकाश। (2022). रिसर्च मेथोडोलॉजी (11वाँ संस्करण). जयपुर: पंचशील प्रकाशन
19. सिंह, अरुण कुमार। (2017). मनोविज्ञान, समाजशास्त्र एवं शिक्षा में रिसर्च मेथोडोलॉजी. पटना: मोतीलाल बनारसीदास पब्लिशर्स
20. यादव, बी डी (2014). पुस्तकालय एवं सूचना विज्ञान में शोध पद्धति. आगरा: वाई के पब्लिशर्स.
21. तोमर, देवेंद्र पाल सिंह (2025). रिसर्च मेथोडोलॉजी: तकनीक तथा उपकरण. दिल्ली : विश्वभारती पब्लिकेशन.
22. चौधरी, एस के एवं राठोड, चित्रा (2019). अनुसंधान : विधि एवं तकनीक. जयपुर: संकल्प प्रकाशन.

A

विभागाध्यक्ष

पुस्तकालय एवं सूचना विज्ञान विभाग
भावनगर हल बटुर्वादी राष्ट्रीय पत्रकारिता
एवं सूचना विश्वविद्यालय, भोपाल (म.प्र.)

Literature Review and Research Synopsis in Library and Information Science

OBJECTIVES:

Marks: 80+20 = 100

- CO1: To familiarize students with the concept of literature review and enable them to identify and use appropriate information sources and databases for conducting a literature review in LIS.
- CO2: To develop students' proficiency in applying effective search strategies and reference management tools for critically evaluating literature.
- CO3: To train students in synthesizing and structuring literature reviews using thematic analysis.
- CO4: To develop the ability to identify research gaps, formulate research questions, and develop an appropriate conceptual framework for the proposed study.
- CO5: To enable students to design and prepare a well-structured draft research synopsis.

Unit-1: Literature Review and Information Sources

Concept & Objectives of Literature Review.

Types: Narrative Review and Systematic Review

Academic Databases and E-Resources: Scopus, Web of Science, Shodhganga, Google Scholar.

Unit 2: Search Techniques and Reference Management

Search Strategies: Boolean Operators (AND, OR, NOT), Keyword Formulation, Subject Headings (LCSH, MeSH)

Reference Management Tools: Zotero, Mendeley.

Unit 3: Literature Synthesis and Citation Standards

Literature Synthesis: Literature Review Matrix and Critical Analysis.

Writing the Literature Review: Structuring: Introduction, Thematic Sections and Discussion.

Citation Standards: Application of Citation Styles (APA 7th Edition).

Unit 4: Research Design and Research Questions

Formulation of Research Components: Title Selection, Statement of the Problem.

Identification of Research Gap, Formulation of Research Questions and Scope of study.

Unit 5: Development of Draft Research Synopsis

Structure of Research Synopsis (Rationale, Objectives, Proposed Methodology, Expected Outcomes).

Preparation of Draft Synopsis Preparation and Chapterization Plan..

References:

1. Kothari, C.R. — *Research Methodology: Methods and Techniques* (New Age International)
2. Kumar, Ranjit — *Research Methodology: A Step-by-Step Guide for Beginners* (Sage)
3. Krishan Kumar — *Research Methodology in Library and Information Science* (Vikas Publishing)
4. Creswell, John W. — *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (Sage)
5. Machi, Lawrence A. & McEvoy, Brenda T. — *The Literature Review: Six Steps to Success* (Corwin)

विभागाध्यक्ष

पुस्तकालय एवं सूचना विज्ञान विभाग
तारकनाथ त्रिभुवानी स्नातकोत्तर परीक्षा
एवं सूचना विज्ञान विभाग, कोषाल (म.प्र.)

6. Rowley, Jennifer & Slack, Frances — "Conducting a Literature Review" (article, *Management Research News* — often prescribed as a reading)
7. Ridley, Diana — *The Literature Review: A Step-by-Step Guide for Students* (Sage)
8. *Publication Manual of the American Psychological Association*, 7th Edition (APA)
9. Day, Robert A. & Gastel, Barbara — *How to Write and Publish a Scientific Paper* (Cambridge)
10. UGC/university-specific PhD synopsis guidelines (usually issued by the department — worth checking since formats vary)
11. Official Website of Shodhganga, ProQuest, Scopus, Web of Science, IEEE Xplore, Google Scholar, Zotero, Mendeley, EndNote etc.
12. कोठारी, सी. आर., गर्ग, गौरव, एवं अग्रवाल, एम. के. (2022)। *रिसर्च मेथोडोलॉजी: मेथड्स एंड टेक्नीक्स*. दिल्ली : न्यू एज इंटरनेशनल पब्लिशर्स
13. मंगल, एस. के., एवं मंगल, शुभा। (2017)। *व्यावहारिक विज्ञानों में अनुसंधान विधियाँ*. दिल्ली: पीएचआई लर्निंग।
14. मुखर्जी, रवींद्रनाथ, अग्रवाल, भरत, एवं अन्य। (2024). *समाजशास्त्र में शोध पद्धतियाँ: आगरा : एस बी पी डी प्रकाशन*
15. राय, पारसनाथ। (2020). *अनुसंधान परिचय. आगरा : लक्ष्मी नारायण अग्रवाल प्रकाशन*
16. रावत, हरिकृष्ण। (2013). *सामाजिक शोध की विधियाँ*. जयपुर : रावत पब्लिकेशन्स
17. शर्मा, वीरेंद्र प्रकाश। (2022). *रिसर्च मेथोडोलॉजी* (11वाँ संस्करण). जयपुर: पंचशील प्रकाशन
18. सिंह, अरुण कुमार। (2017). *मनोविज्ञान, समाजशास्त्र एवं शिक्षा में रिसर्च मेथोडोलॉजी*. पटना: मोतीलाल बनारसीदास पब्लिशर्स
19. यादव, वी डी (2014). *पुस्तकालय एवं सूचना विज्ञान में शोध पद्धति*. आगरा: वाई के पब्लिशर्स.
20. तोमर, देवेंद्र पाल सिंह (2025). *रिसर्च मेथोडोलॉजी: तकनीक तथा उपकरण*. दिल्ली : विश्वभारती पब्लिकेशन.
21. चौधरी, एस के एवं राठोड, चित्रा (2019). *अनुसंधान : विधि एवं तकनीक*. जयपुर: संकल्प प्रकाशन.



विभागाध्यक्ष

पुस्तकालय एवं सूचना विज्ञान विभाग
भारत-माल बहुविध सापेक्ष प्रकाशित
एन सागर विश्वविद्यालय, भोपाल (म.प्र.)

Paper - 3

Digital Technologies and Emerging trends in LIS

Marks: 50+30+20 = 100

OBJECTIVES

- CO1: Understand the basic concepts of Information and Communication, Indian Knowledge Systems, and manuscript preservation.
CO2: Understand the concept and modern metadata standards.
CO3: To equip students with knowledge of digitization and digital library.
CO4: To acquaint students with academic web profiling tools used for scholarly communication and research visibility.
CO5: To introduce students to emerging technological trends in LIS.

Unit 1: Information Foundations, IKS and Manuscripts

Information & Communication: Concept, Process, and Models.

Knowledge Organization in IKS and influence on Dr. S.R. Ranganathan.

Manuscripts Preservation Initiatives: TKDL, NMM.

Unit 2: Metadata and Knowledge Organization

Metadata: Concept, Importance and Types.

Metadata Standards: Dublin Core and MARC21.

Unit-3: Digital Library System and Archiving

Digital Libraries: Concept, Design, Components and Archiving.

Institutional Repositories and INFLIBNET Initiatives.

Unit-4: Academic Web Profiling and Research Visibility

Academic Web Profile (AWP): Concept and Role in Scholarly Communication.

Profiling Tools (Hands-on): VIDWAN, IRINS, ORCID and Google Scholar Profiles.

Unit-5: Emerging Trends and AL in LIS

Open Access Movement: Concept, ETD's (Shodhganga) and Preprint Servers.

AI applications in LIS: Basic Tools for Academic Libraries and AI Literacy.

Reference:

1. McQuail, Denis — *McQuail's Mass Communication Theory* (Sage)
2. Kumar, Krishan — *Theory of Classification* (also covers information concepts, Vikas Publishing)
3. Rowley, Jennifer — *The Basics of Information Systems / Information Marketing* (Ashgate/Routledge)
4. Krishan Kumar — *Library Management* (Vikas Publishing)
5. Witten, Ian H., Bainbridge, David & Nichols, David M. — *How to Build a Digital Library* (Morgan Kaufmann)
6. Chowdhury, G.G. & Chowdhury, Sudatta — *Introduction to Digital Libraries* (Facet Publishing)
7. Kumar, P.S.G. — *Digital Libraries and Digitization* (various Indian publishers)
8. Official user guides/help documentation of EBSCOhost, JSTOR, ProQuest, Science Direct, Project MUSE, PubMed Central
9. ORCID.org, Scopus, and Web of Science official "researcher profile" guides

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अमृतमश्नुते ॥ ९ ॥
अमृतमश्नुते ॥ १० ॥

10. Frické, Martin — *Artificial Intelligence and Librarianship* (3rd Edition), an open textbook covering AI fundamentals, information retrieval, and bias mitigation in libraries, with an annotated bibliography of 400-500 items. Freely available via Open Textbook Library. Open Textbook Library
11. Mahadevan, B., Bhat, Vinayak Rajat & Nagendra Pavana, R.N. *Introduction to Indian Knowledge System: Concepts and Applications*. New Delhi: PHI Learning Pvt. Ltd. 2022. 448 pp. ISBN: 9789391818203 (print); 9789391818210 (eBook).
12. Official Website of INFLIBNET, EBSCOhost, JSTOR, ProQuest, Science Direct, Project MUSE, PubMed Central, VIDWAN, IRINS, ORCID, Google Scholar, ONOS, IGNCA etc.



विभागाध्यक्ष

पुस्तकालय एवं सूचना विज्ञान विभाग
महाराष्ट्र राज्य चतुर्थी राष्ट्रीय प्रकाशित
एवं गुंमार विश्वविद्यालय, कोयल (म.प्र.)

Research and Publication Ethics

OBJECTIVES

Marks:25+15+10 = 50

- CO1: To introduce students to the fundamental concepts of philosophy and ethics as a foundation for understanding research conduct.
- CO2: To develop students' understanding of ethical scientific conduct, intellectual honesty, and research integrity, enabling them to recognize and avoid scientific misconduct.
- CO3: To familiarize students with the principles of publication ethics.
- CO4: To acquaint students with open access publishing initiatives and equip them with practical skills.
- CO5: To enable students to analyze real-world cases of publication misconduct through group discussions critically and to apply plagiarism-detection software for ensuring research integrity.

Unit-1: Philosophy and Ethics

Introduction to philosophy: definition, nature and scope, concept, branches
Ethics: definition, moral philosophy, nature of moral judgements and reactions

Unit-2: Scientific Conduct

Ethics with respect to science and research
Intellectual honesty and research integrity
Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
Redundant publications: duplicate and overlapping publications, salami slicing
Selective reporting and misrepresentation of data

Unit-3: Publication Ethics

Publication ethics: definition, introduction and importance
Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc.
Conflicts of interest
Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types
Violation of publication ethics, authorship and contributorship
Identification of publication misconduct, complaints and appeals
Predatory publishers and journals

Unit-4: Open Access Publishing

Open access publications and initiatives.
SHERA/ROMEO online resources to check publisher copyright & self-archiving policies
Software tool to identify predatory publications developed by SPPU
Journal finder/journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester etc.

Unit-5: Publication Misconduct, Databases and Research Metrics

Group Discussions and Software tools

Subject-specific ethical issues, FFP, authorship
Conflicts of interest, Complaints and appeals: examples and fraud from India and abroad
Use of plagiarism software like DrillBit, Turnitin, Urkund and other open source software tools.

Databases and Research Metrics

Impact Factor of journal as per Journal Citation Report, SNIP, SJR,IPP,Cite Score.
Metrics: h-index, g-index, i10 index, almetrics.



References:

1. Bos, J., Hoeneveld, F., Steenbergen, N. v., Abma, R., Meijl, T. v., & Lepianka, D. (2020). Research Ethics for Students in the Social Sciences. Springer International Publishing.
2. Committee on Publication Ethics. (2019). Predatory publishing. The Embassy of Good Science. Retrieved April 14, 2024, <https://embassy.science/wiki/Theme:49d71148-0df2-4a78-93d4-c802b48bbdb7>
3. Consortium for Academic and Research Ethics. (2019). Retrieved November 20, 2023, from <https://ugccare.unipune.ac.in/apps1/home/index>
4. COPE: Committee on Publication Ethics. (2022, September 15). Principles of Transparency and Best Practice in Scholarly Publishing. COPE: Committee on Publication Ethics. Retrieved April 14, 2024, <https://publicationethics.org/resources/guidelines/principles-transparency-andbest-practice-scholarly-publishing>
5. Gupta, S., Kamboj, S. (2020). Research and Publication Ethics. (n.p.): Alexis Press LLC.
6. Nimit. Chowdhary (sunayana. Prakash, M.), Sunayana, & Prakash, M. (2024). Research and publication ethics: An introduction. Routledge Chapman & Hall.
7. Principles of Transparency and Best Practice in Scholarly Publishing || WAME. www.wame.org. Retrieved January 11, 2024, from <https://www.wame.org/principles-of-transparency-and-best-practice-inscholarly-publishing>
8. UGC (2018). University Grants Commission (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018. Retrieved November 20, 2023, https://www.ugc.gov.in/pdfnews/7771545_academic-integrityRegulation2018.pdf
9. UGC (2020). Good Academic Research Practices. New Delhi: University Grants Commission. Retrieved November 20, 2023, from https://www.ugc.gov.in/ebook/UGC_GARP_2020_Good%20Academic%20Research%20Practices.pdf
10. University Grants Commission (2021). Academic Integrity and Research Quality. University Grants Commission.

विभागाध्यक्ष

पुस्तकालय एवं सूचना विभाग विभाग
राष्ट्रपतिजी महाराज संसदीय
एन. एन. विद्यापीठ, सोमनाथ (गुज.)

Paper -4-B

Dissertation

Marks:40+10 = 50

Each student will carry out a research project during the course and submit the dissertation within 15 days of the last theory examination. Topic of the research project will be selected and decided in consultation with the faculty. Ph. D. Coursework Advisory Committee (to be appointed by the Vice Chancellor) will allocate a Guide to each student. Copy of the approval of the topic by the University with the name of the supervisor, copy of the approval of the synopsis signed by the supervisor will have to be attached in the dissertation. It will also contain a certificate by the allotted supervisor stating that the research work is approved by the supervisor and has been carried out under her or his supervision. Dissertation will be computer typed in Hindi or English, on both sides of the A-4 size paper, font size-12 Pt. for English and font size 14 for Hindi. It will NOT be spiral bound. Line space will be single, borders maximum 2" on binding, 1.5" on the other three sides. For headings, titles and subtitles bigger font size can be used. One copy each of the code book/questionnaire (if used) will also be the part of the dissertation. All the computer listing of data and computer generated tables and other rough work will be presented at the time of viva voce examination. Any mistakes in the dissertation will be that of the student and will not be attributed to the computer operator or anybody else. During the viva-voce examination each student will make a short PowerPoint presentation (not more than 15 minutes) of her or his work. Viva-voce will be held by the same evaluator. Any copying, repetition, plagiarism will be punishable by cancellation of the enrollment and cancellation of the certificate even if detected after the award of the certificate.



विभागाध्यक्ष

पुस्तकालय एवं सूचना विभाग विभाग
माखनमाल अतुर्वर्ती राष्ट्रीय पत्रकारिता
एवं संचार विश्वविद्यालय, भोपाल (म.प्र.)