

Estd. 1962
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NAAC (2021)
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR

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शिवाजी विद्यापीठ, कोल्हापूर, ४१६ ००४, महाराष्ट्र

दूरध्वनी - इपीबीएक्स - २०६०९०००, अभ्यासमंडळे विभाग : ०२३१- २६०९०९४. २६०९४८७ वेबसाईट : www.unishivaji.ac.in ईमेल : bos@unishivaji.ac.in





Date: 08 - 10 - 2025

Ref.: SU/BOS/ IDS / 606

To,

The Head, Departments of Library, Shivaji University, Kolhapur.

Subject: Regarding revised syllabi of **Library and Information Science** degree programme under the Faculty of Inter- Disciplinary Studies as per NEP-2020 (2.0).

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the revised syllabi, nature of question paper and equivalence of **Library and Information Science** for follower's degree programme under the Faculty of Inter- Disciplinary Studies as per National Education Policy, 2020 (NEP 2.0).

Course	
Master of Library and Information Science.	Part – I
Bachelor of Library and Information Science	Part – I
Ph. D. Library and Information Science	

This syllabus, nature of question and equivalence shall be implemented from the academic year **2025-2026** onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in NEP-2020 (Online Syllabus)

The question papers on the pre-revised syllabi of above-mentioned course will be set for the examinations to be held in October /November 2025 & March/April 2026. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours Faithfully

Dr. S. M. Kubal) Dy Registrar

Encl. : As above.

Copy to: For Information and necessary action.

The Dean, Faculty of IDS	7	Affiliation T. 1 & T. 2 Section		
Director, Board of Examination and Evaluation	8	Appointment A & B Section		
The Chairman, Respective Board of Studies	9	P.G.Seminar Section		
All On Exam Section	10	I.T. Cell		
Eligibility Section	11	Internal Quality Assurance Cell (IQAC)		
P. G. Admission Section				
	Director, Board of Examination and Evaluation The Chairman, Respective Board of Studies All On Exam Section Eligibility Section	Director, Board of Examination and Evaluation 8 The Chairman, Respective Board of Studies 9 All On Exam Section 10 Eligibility Section 11		

SHIVAJI UNIVERSITY, KOLHAPUR



Reaccredited by NAAC with 'A++' Grade

Ph. D. Course Work Syllabus

Subject: Library and Information Science

Faculty: Interdisciplinary Studies

From- June 2025 Onwards

(Subject to the modifications to be made from time to time)

Shivaji University, Kolhapur Department of Library & Information Science Ph.D. Course Work Syllabus

• PREAMBLE:

The course work of Ph. D. programme primarily intends to develop the professional abilities and skills of researchers and LIS professionals working in Academic, Public, Special Libraries and similar Library Systems and Information/ Documentation Centres. In particular, it enhances and enriches their professional knowledge and research insight as well.

• Programme Educational Objectives:

- 1. To enable the students to carry out research systematically in the field of LIS.
- 2. To strengthen the skills and competencies among LIS Students to apply recent trends in LIS.
- 3. To make the students familiar with modern library services and products.
- 1. **SUBJECT:** Library and Information Science
- 2. **FACULTY:** Interdisciplinary Studies
- 3. **YEAR OF IMPLEMENTATION:** New/Revised Syllabus will be implemented from June 2025 onwards.
- 4. **DURATION:** The rules for Ph. D. adhere to the prospectus of said course revised from time to time by the University.
- 5. PATTERN OF EXAMINATION: Semester/ Annual pattern
- 6. **MEDIUM OF INSTRUCTION:** The medium of instruction shall be English. The Student shall write the answers in the examination either in **English or Marathi**

7. STANDARD OF PASSING:

i) The scholar should secure minimum 40% marks to complete the course work in individual paper. Ph.D. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the UGC 7 - point scale in the course work in order to be eligible to continue in the programme and submit the dissertation / thesis (as per R.D. 11.9). The candidate will be allowed to reappear the examination for one, two or three papers if he / she could not achieve 55% aggregate in coursework examination.

- ii) The examination shall be conducted at the end of each academic year.
- iii) The evaluation of the performance of the scholars shall be as per scheme of examination.
- iv) Question Paper shall be set in the view of the / in accordance with the entire syllabus and preferably covering each unit of syllabus.

Note: Question Paper will focus on all units in the syllabus

Question Paper Pattern: Theory Course

Time: 3 Hours	tal Marks: 80						
Instructions: 1)	All qu	estions are compulsory					
2)	All qu	estions carry equal marks.					
Que 1) Short answ	vered (questions (Any Four Out of Six Questions)	(20 Marks)				
i)	to	vi)					
Que 2) Long answ	vered o	questions (Any Two Out of Four Questions)	(20 Marks)				
i)	to	iv)					
Que 3) Short note	s (Any	y Four Out of Six Questions)	(20 Marks)				
i)	to	vi)					
Que 4) Problems	/ Case	s / Exercise Oriented Questions.	(20 Marks)				
(Any One	Out o	f Two Questions)					
i)	to	ii)					

Structure of the course work for Ph. D. in Library and Information Science

• **THEORY PAPER MARKS:** (Total 240 Marks)

The Ph. D. course work consists of Three Theory Papers each of 80 marks.

• INTERNAL MARKS: (Total 60 Marks)

Internal Examination will be conducted by the concerned departments or research centers in the following form:

- 1. For paper 1 and 2 the internal evaluation will include 2 Seminars of 10 Marks each
- 2. For paper -3 the internal evaluation will be as follows:
 - a) Seminars and Presentation 10 marks
 - b) Reviews Literature: Submission and Presentation- 10 marks

Total Marks: : 300 Marks

Sr. No.	Title of the Course	No. of Credits	Examination Marks			
			Max. Marks	Intern al Marks	Tota l Mar ks	Teachi ng Hours
	Research Methodology, Quantitative					
01	Techniques and Computer	4	80	20	100	60
	Application					
02	Recent Trends in Libraries and	4	80	20	100	60
	Information Centres	-				
03	Modern Library & Information	4	80	20	100	60
	Services and Products					

PAPER - I: RESEARCH METHODOLOGY, QUANTITATIVE TECHNIQUES AND COMPUTER APPLICATION

Course Outcomes:

- 1. To strengthen the ability of LIS Students in research applications.
- 2. To make LIS Students aware about various research methods and data collection tools.
- 3. To impart knowledge about the application of statistics and use of computer in research.

Unit No. 1 – Fundamentals of Research

(12 Periods)

- Basic principles of research and theory building
- Steps in the process of Research
- Types of Research: Pure (Basic) and Applied (Action), Experimental and Evaluation, Qualitative and Quantitative, Longitudinal and Comparative
- Literature search and Review of Literature
- Research Design: Meaning, definition and Steps
- Current Trends in LIS research

Unit No. 2 – Research Methods, Data Collection Tools and Techniques (12 Periods)

- Research Methods: Historical Method, Experimental Method, Case Study Method, Descriptive Research Method, etc.
- Citation Metrics: Authors, Journal and Institutional
- Metric Studies: Bibliometrics, Informetrics, Scientometrics, Webometrics, Altmetrics etc.
- Sampling: Concept, Types, Sample size.
- Data Collection Tools & Techniques: Questionnaire, Schedule, Interview, Observation, Content Analysis, Projective Techniques, Check list, Delphi technique etc.

Unit No. 3 - Quantitative Techniques and Data Analysis

- Data processing and presentation techniques.
- Measures of Central Tendency: Mean, Mode, Median.
- Measures of Dispersion: Range, Interquartile Deviation, Mean Deviation,
 Standard Deviation, Skewness etc.
- Reliability and Validity
- Correlation and Regression
- Hypothesis and its Testing- Concept, definition, Types and nature of Hypothesis,
 Criteria for construction of Hypothesis

- Testing of Hypothesis
 - Parametric Tests: T- Test, F- Test, Z- Test etc.
 - Non-parametric tests: Chi-Square, ANOVA, Mann-Whitney U- Test, Kruskal-Wallis H- Test etc.

Unit No. 4- Report Writing

(12 Periods)

- Research and Publication Ethics: Plagiarism, Redundant publication, Conflict of interest, Duplicate publication, salami slicing etc.
- Reference Style- APA, Chicago, IEEE, MLA, ISA etc.
- Report Writing: Guidelines, Contents of reports and Steps in writing research report
- Responsible use of AI based tools for academic writing
- How to write research article technically

Unit No. 5 - Computer Applications in Research

- Use of MS-Office for Data and Graphical Processing
- Use of Softwares for Research: SPSS, Bibexcel, R-Studio, Web-Based Statistical Analysis tools, Online Citation tools, Reference Style Management tools etc.
- Use of Anti-plagiarism Softwares: iThenticate, DrillBit and Turnitin

Recommended Books:

- 1. Kothari, C. R. (1990), Research Methodology: Methods and Techniques 2 -Ed, New Delhi.
- 2. Allen, (T) (Harrel): New Methods in Social Science Research, 1978.
- 3. Kaul, Lokesh (1997). Methodology of Educational Research, New Delhi, Vikas Publishing House.
- 4. Kumar, Krishan (1992). Research Methods in Library & Information Science. Delhi Har- Anand Publications.
- 5. Ahuja, R.: Research Methods, Rawat Publication: Jaypur and New Delhi, 2001.
- 6. Goods, W. J. & Hatt, P.K.: Methods in Social research New York, McGraw Hill Co., 1952
- 7. Gupta, C.B. &Ratan: Statistical calculations Delhi Vikas pub House, 1973.
- 8. Kumbhar, R. M.: Library and Information Science Research: Methods and Techniques, Universal Prakashan: Pune, 2014
- 9. Sardana J. L. & Sehgal R. L. : Statistical methods for Libraries, New Delhi ESS publication 1981
- 10. Savanur, S. K. (2024). Research Methodology for Information Sciences. Pune: Universal.
- 11. American Psychological Association. (2020). Publication manual of the American Psychological Association: The official guide to APA style (Seventh edition). American Psychological Association.
- 12. Satija, M. P., Martinez-Ávila, D., & Swain, N. K. (Eds.). (2019). Plagiarism: An international reader. Ess Ess Publications.
- 13. Phadake, D.N. (2023). Research Methodology and Information Literacy. Ess Ess Publications.
- 14. सुतार, धनंजय भगवान (२०२४) ग्रंथालय आणि माहितीशास्त्र : वर्णनात्मक व वस्तुनिष्ठ. ए. बी. एस. पब्लिकेशन्स. वाराणसी

Paper II: RECENT TRENDS IN LIBRARIES AND INFORMATION CENTRES Course Outcomes:

- 1. To impart knowledge about various ICT trends and related services to LIS Students.
- 2. To make LIS Students aware about various networks and network related library services.
- 3. To provide knowledge about various library automation softwares as well as discovery tools.

Unit 1: Fundamentals of Information and Communication Technology (ICT) (12 Periods)

- ICT: Components, Channels and Use
- Internet and World Wide Web: Components, Services, Browsing, Search engines
- Database: Concept, Definition, Types, Structure and Use; DBMS, RDBMS, SQL, MySQL etc.
- Role of ICT in the Development of LIS centers.

Unit 2: Network/Web Technology and Security Measures (12 Periods)

- Network: Concept, Types, Topology and Components/Medias
- Networking Techniques, Switching Systems: Techniques and Types
- Planning of computer network in Library and Information centers
- Library Networks, Consortia
- Network Security Measures: Authentication, Firewalls, Virus & Spyware, Digital Rights Management (DRM) etc.
- Internet Systems: Web browsers, Web Servers and its functions & Internet Security
- Internet Searching tools and Techniques, DOI etc.

Unit 3: Library Automation and Software Management (12 Periods)

- Introduction to various Integrated Library Management Softwares (ILMS): SOUL 3.0, KOHA, NewGenlib
- Modules of ILMS: Acquisition, Circulation, Cataloguing, Serial Control, Administration, OPAC, Web OPAC and M-OPAC
- Introduction to Library Discovery Tools: Knimbus, EZProxy, VuFind, Backlight and others
- Evaluation of ILMS packages

Unit 4: ICT Services (12 Periods)

 Electronic Information Sources and Services: Electronic Resource Management Systems (ERMS), Digital Information Management, E-content, M-Library/Services, Barcode, RFID, MOOC Technologies etc.

- Content Management System (CMS): Content Management Architecture, Content Development: Content Authoring, Content Review, Content Version Management, Crowdsourcing, Syndication.
- Retrieval in CMS: Search Development and Metadata Tagging
- Portals and Subject Gateways
- Data Management: Research Data Management (RDM), Data Curation Standards and Models, Linked Open Data

Unit 5: Recent Trends

- Generative AI and its implications in the Libraries
- Internet of Things (IoT): Concept, History and its Growth, Essential Technologies, Impact on the libraries, Challenges and Issues, Examples and Future of IoT in Libraries
- Network authentication: IP based authentication, Shibboleth, Open Athens, etc.
- Open Journal System, Big Data and Open Data
- Blockchain Technology: Concept, Scope ,Need and its implications for the libraries
- Library Makerspace: Concept, Need, Examples

Recommended Books:

- 1. Phadke, D. N. (2018). Library & Information Technology. Pune: Universal.
- 2. Shubham, B. A. (2001). Issues for Libraries and information science in the internet age. Englewood: Libraries Unlimited Inc.
- 3. Balasubramanian, P. (2012). Web technologies in Library & Information Science. New Delhi: Regal publications.
- 4. Westman, S. R. (2009). Creating data based-backed library and web pages using open source tools. Chicago: American Library Association.
- 5. Chowdhury, G. G. & Chowdhury, S. (2003). *Introduction to digital libraries*. London: Facet.
- 6. Lihitkar, S. R. (2017). Information landscapes: A scenario. New Delhi: Ess. Ess.
- 7. Hahn, Harley: The Internet Complete Reference. 2nd Ed. New Delhi: Tata Mcgraw Hill, 2002.
- 8. Singh, J.N. and others: Internet and Information Technology. Bangalore: Subhas Stores, 2003.
- 9. Williamson, H. (2004). The Complete Reference XML. New Delhi: Tata McGraw-Hill.
- 10. Koltay, T. (2022). Research data management and data literacies. Elsevier. https://doi.org/10.1016/C2020-0-02068-2
- 11. Green, D. (n.d.). Open journal systems | ojs hosting, support, customization. Open Journal Systems. Retrieved March 13, 2025, from https://openjournalsystems.com/
- 12. Hosseini, M., & Holmes, K. (2023). The evolution of library workplaces and workflows via generative AI. College & Research Libraries, 84(6). https://doi.org/10.5860/crl.84.6.836
- 13. सुतार, धनंजय भगवान (२०२४) ग्रंथालय आणि माहितीशास्त्र : वर्णनात्मक व वस्तुनिष्ठ. ए. बी. एस. पब्लिकेशन्स, वाराणसी

Paper –III: MODERN LIBRARY & INFORMATION SERVICES AND PRODUCTS

Course Outcomes:

- 1. To acquaint the students with planning of electronic information products and services.
- **2.** To develop acquaintance with the semantic and web based library services.
- 3. To make the students acquainted with the emerging trends and technologies used in the Libraries and Information centres.

Course Contents (CC)

Unit 1: Information Products and Services

(12 Periods)

- Planning and Development of Information Products and Services.
- Marketing Mix: Seven P's, Kotler's Four C's, Marketing Plan & Strategy.
- Pricing, Branding and Advertising.
- Measuring Quality of Library & Information Services

Unit 2: Electronic Information Services

(12 Periods)

- Types and Emerging Trends and Technologies of Electronic Information Services
- One Nation One Subscription (ONOS)
- Bibliographic Full text Services: Concept, Need, Major Players, Full text Sources,
 Copyright Issues and Future Trends
- Virtual Reference Service : Concept, Definition, Types and Modes
- Paradigm Shift: Integrated Library System (ILS) to Library Service Platform (LSP)

Unit 3: Design & Development of Digital Library

- Digital Library: Concept, Characteristics and components
- Content creation for DL: Digitization process and preservation, Search and Browser Interface
- Digital Library Architecture, Digital Library Protocols and Standards
- Technical infrastructure: Hardware and Software
- Development of Digital Library using DL Software's: DSpace, E-print, Greenstone,
 Fedora etc.
- Semantic Digital Library Services, Architecture of Semantic Digital Libraries, Semantic Library Projects-JeromeDL Project, BRICKS Digital Library Infrastructure, MarcOnt Initiative, SIMILE Project etc.
- Open Access and Digital Library Open Access Journals, Institutional Repositories,
 Open Courseware, Metadata Harvesting Services

Unit 4: Emerging Trends and Technologies for Library services

- (12 Periods)
- Sustainable Libraries and Services: Concept, Importance, Indian & Global Initiatives,
 Sustainable Development Goals (SDGs) and it's impact of Libraries
- Data Repositories : Concept, Need, Indian and Global Scenario
- Library Makerspace: Concept, Need, Examples
- Gamification: Concepts and its implication in Library
- Digital Archives: IR, IPR- Cyber security and privacy
- Registry of Digital Repositories: OpenDOAR, GetaGrainger, Open Archives.com etc.
- Embedded Librarianship

Unit 5: Web based Library & Information Services

- Application of Social Media for Library Services: Concept, Need and Types:
 Communication, Collaborative Content Building, Multimedia Sharing, Review & Opinion, Entertainment, and Monitoring
- Web 2.0 Tools and their application in Libraries: RSS Feed, Streaming Media, Blogs/Weblogs, Tags, Folksonomy, Mashups, Podcasting, Vodcasting, SMS Inquiry Service, Instant Messaging, Flicker, Wikis and Social Networking, Social Bookmarking, Ajax, Application Programming Interface (API), Library Tool Bars, Crowdsourcing
- Web 3.0 : Concept and Major Applications
- Assistive Technologies in Libraries (Extending Services for the Users' with Disabilities)
 : Concept, Need, Different Types of Hardware and Software

• Recommended Books:

- 1. Bopp, R E., & Smith, L. C. (2011). Reference and Information services: An introduction, 4th Ed.. Santa Barbara, Calif.: Libraries Unlimited.
- 2. Manohar, V., & Lihitkar, S.R. (2017). Web 2.0 in libraries. New Delhi: Studera Press.
- 3. Lihitkar, S.R. *Information landscapes: A scenario (Dr. PSG Kumar Festschrift).*New Delhi: Ess Ess Publications.
- 4. Miller, J. (2019). *Internet technologies and Information Services* (2nd ed.). Libraries Unlimited.
- 5. Tripathi, A., Ansari, M., & Gupta, J. (2019). *Recent trends in libraries in networked environment*. New Delhi: Ess Ess Publications.
- 6. Śrīvāstava, P., & Srivastava, P. (2008). Copyright in academic libraries in digital environment. Ess Ess Publications.
- 7. सुतार, धनंजय भगवान (२०२४) ग्रंथालय आणि माहितीशास्त्र : वर्णनात्मक व वस्तुनिष्ठ. ए. बी. एस. पब्लिकेशन्स, वाराणसी