Estd. 1962
NAAC 'A' Grade
MHRD NIRF-28th Rank

SU/BOS/IDS/   № 0 8 7 9   Date: 17 MAR 2020

To,

The Principal, All Affiliated Colleges/Institutions, Shivaj University, Kolhapur	The Head, Department of Library & Information Science Shivaji University, Kolhapur.

Subject: Regarding syllabi of M.Phil/Ph.D.course work Library & Information
Science under the Faculty of Inter Disciplinary Studies.

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 of M.Phil/Ph.D.course work Library & Information Science under the Faculty of
Inter Disciplinary Studies
This syllabi and equivalence shall be implemented from the academic year 2019-2020
(i.e. from June 2019) onwards. A soft copy containing the syllabus is attached herewith and it
is also available on university website www.unishivaji.ac.in. (Online Syllabus)
You are, therefore, requested to bring this to the notice of all students and teachers
concerned.

Thanking you,

Yours faithfully,

Dy Registrar

Copy to:

1	The Dean, Faculty of Inter- Disciplinary Studies	6	Appointment Section
2	The Chairman, BOS under Faculty of Inter-Disciplinary Studies	7	Computer Centre
3	Eligibility Section	8	Affiliation Section (U.G.)
4	P.G.Seminar Section	9	Affiliation Section (P.G.)
5	O.E. I, II, & III Section	10	P.G.Admission Section

SHIVAJI UNIVERSITY, KOLHAPUR

Reaccredited By NAAC with **'A'** Grade

M. Phil. / Ph. D. Course Work Syllabus

Subject: Library and Information Science

Faculty: Interdisciplinary Studies

From- June 2019 Onwards

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

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

- **PREAMBLE :**
    The course work of M. Phil. / Ph. D. programmes 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 Objectives:**
    1. To enable the students to find solution to the problems in the field of LIS
    2. To strengthen the skills and competencies among LIS Students in handling the ICT tools useful for research.
    3. To make familiar with modern trends and services rendered in LIS.

1. SUBJECT : Library and Information Science

1. FACULTY:Interdisciplinary Studies

2. YEAR OF IMPLEMENTATION:- New/Revised Syllabus will be implemented from June 2019 onwards.

3. DURATION: The M. Phil. Programme shall be a full time regular course. The duration of M. Phil. Programme shall be of one year. The rules for M. Phil/ Ph D is adhere to the prospectus of said course revised from time to time by the University.

4. PATTERN OF EXAMINATION: Annual in respect of M. Phil (including Dissertation) and Semester in respect of Ph.D.

5. MEDIUM OF INSTRUCTION: The Medium of Instruction shall be English The Student shall write the answers in the examination either in English or Marathi

6. The Student has to Secure Minimum 40% Marks in Theory papers (I, II and III) to complete the Course Work.

- **Equivalences to the Old and New Papers**

Sr. No.	Paper No. and Title of Old Paper	Paper No. and Title of New Paper
1	Paper I : Advanced Research Methods and Techniques	Paper - I: Research Methodology, Statistical Techniques and Computer Application
2	Paper II : Recent Trends in Library and Information Science	Paper II: ICT Applications in Libraries and Information Centres
3	Paper III : Management of Library System	Paper –III: Modern Library and Information Services and Products

Common Question Paper Pattern: Theory Course

Time: 3 Hours   **Total Marks: 80**

Instructions: 1) Attempt any three descriptive questions from Que. 1 to 5.

               2) Que. 6 is compulsory (Short Note)

               3) All questions carry equal marks.

Que. 1) to Que.5): Descriptive Questions

Que. 6) Short Notes: (Write any two short notes out of four)

- Structure of the course work for M. Phil./Ph. D. in Library and Information Science

- The M. Phil. / Ph. D. Course Work Consists of parts as under:

  A) Three Theory Papers :   : 240 Marks

  INTERNAL MARKS :

  B) Submission of Review of Literature and one research paper related to topic of research (The internal marks will be considered for paper number 1)   : 20 Marks

  C) Searching of database and handling of Reference Management Tools and Statistical Software (The internal marks will be considered for paper number 2)   : 20 Marks

  D) Seminars : 02   (The internal marks will be considered for paper number 3)   : 20 Marks

  Every student will present 02 Seminars of 10 marks each; viz. one on theory related papers and one on Review of Literature on published research in the relevant field.

Total Marks: **: 300 Marks**

Sr. No.	Title of the Course	Examination Marks			Teaching Hours
		Max. Marks	Internal Marks	Total Marks	
01	Research Methodology, Statistical Techniques and Computer Application	80	20	100	60
02	ICT Applications in Libraries and Information Centres	80	20	100	60
03	Modern Library & Information Services and Products	80	20	100	60

Paper - I: RESEARCH METHODOLOGY, STATISTICAL TECHNIQUES AND COMPUTER APPLICATION

Course Outcomes:

1. To strengthen the ability of LIS Students in research oriented theories and practices.

2. To make aware about statistical techniques and methods in LIS 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
- Research Ethics
- Literature search and Review of Literature
- Research Design: Meaning, definition and Steps

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.
- Data Collection Tools & Techniques: Questionnaire, Schedule, Interview, Observation, Content Analysis, Projective Techniques, Check list, Delphi technique etc.

Unit No. 3 - Quantitative Techniques   (12 Periods)

- Data analysis, tabulation & graphical presentation.
- Sampling: Concept, Types, Sample size.
- Measures of Central Tendency: Mean, Mode, Median.
- Measures of Dispersion: Range, Interquartile Deviation, Mean absolute deviation Standard Deviation, Skewness etc..
- Correlation
- Regression

Unit No. 4 – Hypothesis and its Testing   (12 Periods)

- Concept, definition, Types and nature of Hypothesis
- Criteria for construction of Hypothesis
- Testing of Hypothesis

- Parametric Tests:

- Non-parametric tests:

Unit No. 5 - Computer Application for research   (12 Periods)

- Use of MS-Office for Data and Graphical Processing

- Use of Softwares for Research: SPSS, Bibexcel, R-programming, Web-Based Statistical Analysis tools, Online Citation tools, Reference Style Management tools etc.

- Use of Anti-plagiarism Softwares: iThenticate, Urkund and Turnitin

- Impact Factor and Indexing: Journal, Institutional and Authors; h-index, g-index, i10 index

Recommended Books:

Kothari, C . R. (1990), Research Methodology: Methods and Techniques 2 -Ed, New Delhi.

1. Allen, (T) (Harrel): New Methods in Social Science Research, 1978.

2. Kaul, Lokesh (1997). Methodology of Educational Research, New Delhi, Vikas Publishing House.

3. Kumar, Krishan (1992). Research Methods in Library & Information Science. Delhi Har- Anand Publications.

4. Ahuj, R.: Research Methods, Rawat Publication: Jaypur and New Delhi, 2001.

5. Goods W. J. &Hatt P.K. : Methods in Social research New York, McGraw Hill Co., 1952

6. Gupta C.B. &Ratan: Statistical calculations Delhi Vikas pub House, 1973.

7. Kumbhar, R. M.: Library and Information Science Research : Methods and Techniques, Universal Prakashan: Pune, 2014

8. Sardana J. L. &Sehgal R. L. : Statistical methods for Libraries, New Delhi ESS publication 1981

9. Savanur, S.K.(2008). Research methodology for information sciences. Pune: Universal.

Paper II: ICT APPLICATIONS IN LIBRARIES AND INFORMATION CENTRES

Course Outcomes:

1. To create understanding and give an extensive exposure among the students about the emerging role of ICT in LIS.
2. To acquire knowledge about recent technologies for updating Libraries and Information Centres.
3. To acquaint students with creation of Digital Libraries and its services.

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

- ICT: Concept, Definition, Components, Channels and Use
- Database: Concept, Definition, Types, Structure and Use; DBMS, RDBMS, SQL, MySQL etc.
- Role of ICT in the Development of LIS centers.

Unit II: 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, Search Engines & Internet Security
- Internet Searching tools and Techniques, DOI etc.
- Use of Internet in Library and Information Centers

Unit III: Library Automation and ICT Services (12 Periods)

- Library Automation: Software packages and evaluation of Software packages
- ICT Services: Multimedia- Components & applications, IR, Electronic Information Resources and Services, (Applications), Electronic Resource Management Systems (ERMS), Digital Information Management, E-content, M-Library/Services, Barcode, RFID, CMS, MOOC Technologies etc.

Unit 4: Design & Development of Digital Library (12 Periods)

- 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.

Unit 5: Current Trends   (12 Periods)

- Web 2.0/Web 3.0 : Concepts, Tools and Applications/Services
- Cloud computing : Concept, types, Vender/Players in cloud computing , Application of Cloud computing in Libraries
- M-computing : Concept and Applications
- Open Journal System and Big Data
- Internet of Things (IoT)

Recommended Books:

10. Phadke, D. N. (2018). *Library & Information Technology*. Pune: Universal.

11. Shubham, B. A. (2001). Issues for Libraries and information science in the internet age. Englewood: Libraries Unlimited Inc.

12. Balasubramanian, P. (2012).Web technologies in Library & Information Science. New Delhi: Regal publications.

13. Westman, S. R. (2009). Creating data based-backed library and web pages using open source tools. Chicago: American Library Association.

14. Chowdhury, G. G. & Chowdhury, S. (2003). *Introduction to digital libraries*. London: Facet.

15. Lihitkar, S. R. (2017). *Information landscapes: A scenario*. New Delhi: Ess. Ess.

16. Hahn, Harley: The Internet Complete Reference. 2nd Ed. New Delhi: Tata Mcgraw Hill, 2002.

17. Singh, J.N. and others: Internet and Information Technology. Bangalore: Subhas Stores, 2003.

18. Williamson, H. (2004). The Complete Reference XML. New Delhi: Tata McGraw-Hill.

- Digital storytelling : Concept, Implications and Examples of initiatives taken by the Libraries
- Library Makerspace: Concept, Need , Examples
- 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
- Big Data and Open Data

Unit 5: Web based Library & Information Services (12 Periods)

- 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
- Libraries Rendering Services for the Users' *with Disabilities Using* Assistive Technologies.

Selected Readings:

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.

Paper –III: MODERN LIBRARY & INFORMATION SERVICES AND PRODUCTS

Course Objectives/Outcome (CO)

- To acquaint the students with planning of electronic information products and services.
- · To develop acquaintance with the semantic and web based library services.
- 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.
- 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
- Bibliographic Full text Services : Concept, Need, Major Players. Full text Sources. Copyright Issues and Future Trends
- Virtual Reference Service : Concept, Definition, Types and Modes
- Library Discovery System : Concept, Need, Types, Tools, Features of Open Source Library Discovery Systems, Associated Standards and Limitations
- Paradigm Shift: Integrated Library System (ILS) to Library Service Platform (LSP)

Unit 3: Semantic Digital Library Services   (12 Periods)

- 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)

- Assistive Technologies in Libraries (Extending Services for the Users' *with Disabilities*) : Concept, Need, Different Types of Hardware and Software
- Sustainable Libraries and Services : Concept, Importance. Indian & Global Initiatives
- Data Repositories : Concept, Need, Indian and Global Scenario
- Blockchain Technology: Concept, Scope ,Need and its implications for the libraries