

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

PERIYAR UNIVERSITY

SALEM - 636 011



M. Lib. I. Sc DEGREE

Library and Information Science

REGULATIONS AND SYLLABUS

(Effective from the Academic year 2026 and thereafter)

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Faculty Members

Dr. N. Radhakrishnan **Professor and Head**

Dr. C. Murugan **Professor**

Dr. E.S. Kavitha **Assistant Professor**

Dr. P. Gomathi **Assistant Professor**

Dr. M. Palaniappan **Assistant Professor**

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

M. Lib. I. Sc DEGREE

OBE - REGULATIONS AND SYLLABUS

(With effect from the academic year 2026 onwards)

1. Preamble

The Master of Library and Information Science is a program designed to meet the challenges of our profession. The program introduces students to the roles and functions of libraries. They gain knowledge about key policy issues and technological trends, as well as how these issues and trends affect libraries and information centers. In addition to managing and evaluating collections, students learn to respond to the information needs of patrons and use of technology to improve access to information. Graduates of this program are prepared to work in public, school, academic, and special libraries in administration, public services, technical services, and collection development.

2. General Graduate Attributes

LIS in Society: Students understand both the importance of information in modern society and the role played by libraries, information organizations, information systems, services, and technologies in building sustainable communities.

Knowledge Areas: Students applying the technical knowledge needed to do the job, including competence in library and information management.

Critical thinking skill: Students use this skill to evaluate information resources, technology, services, and challenges in library administration.

Research: Students learned about the nature of the scientific inquiry, the conduct of research, methods of collecting, managing, and analyzing data, and the relationship between methods and evidence.

Problem Solving: Students use a variety of problem-solving tools and approaches at the end of the course to solve the problem.

Technical Skill: Students can apply appropriate strategies, tools, and technologies to represent, organize, manage, preserve, and disseminate data and information.

Collaboration: To enable students' collaboration with other institutes/friends/department faculty for knowledge, resource sharing, and research

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Communication: Career development skills, including written and oral communication, will also be crucial for work, function, and contribution as a member of a team. End of the course, students will have these skills.

Self-directed learning: Students will engage in lifelong learning, making effective use of the range of information resources for research and popular writings and professional organizations that support information work.

Career skills: students with a wide range of technical skills must be needed throughout a professional career.

Diversity: This included equal opportunity, and diversity means that all visitors should be equitable in the library.

Ethical Practice: Graduates practice for fulfilling careers characterized by ethical practice and professional values through the curriculum.

Sustainability: LIS degree program with a global effort to change attitudes toward and behaviors involved in managing the world's resources. Our syllabus meets the needs of present and future generations to meet their needs.

Social Responsibility: Student understands library and information professionals' roles in promoting and advocating for social responsibility on a contemporary issue through a major paper and resource guide.

3. Programme Specific Qualification Attributes

Mention the programme specific qualification attributes achieved through courses in the programme in terms of

- Knowledge and understanding levels (K1 and K2)
- Application-level (K3)
- Analytical level (K4)
- Evaluation capability level (K5)
- Scientific or synthesis level (K6)

4. Vision

The dynamic leadership style in library and information science will be instituted and fostered through quality education, need-based education, hands-on training, and research activities.

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

5. Mission

- To impart quality, skill-based Library and Information Science Education to meet national and global challenges.
- To inculcate leadership quality among students to make them competent LIS professionals.
- To promote innovative research and quality research publications among researchers.
- To make a visibility of the department across the globe.

6. Programme objectives and outcomes

PROGRAMME EDUCATIONAL OBJECTIVE (PEOs)

1. The graduates will be able to manage libraries and other information organizations.
2. Graduates will succeed in higher studies and research.
3. Graduates of Library and Information Science will demonstrate the highest integrity with ethical values, good communication skills, leadership qualities, and self-learning abilities.

PROGRAM OUTCOMES (PO's)

1. Students can understand the foundation and fundamentals of LIS principles, philosophy, ethics, policies, and legislation.
2. Students can manage information resources and the processes of collection development, organization, preservation, access, and dissemination of information in all formats.
3. Students can apply management concepts, effective problem solving, and decision-making in the management of information and information services.
4. The students are familiar with national and international standards of cataloging, metadata, indexing, and classification for arranging knowledge and information for easy retrieval.
5. Students understand the nature of the profession – Interdisciplinary, teamwork, and user-centric.
6. Students know the role of library and information services in serving the needs of social development.
7. Students can recognize the diverse needs of users and fulfill them with appropriate and different formats of information resources.
8. Students can develop themselves to evaluate and analyses the resources and services.
9. Students understand the role of libraries and information services in a rapidly changing technological society.

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

10. Students can make use of the techniques, skills, and Information and Communication Technology (ICT) tools, software necessary for the library profession.
11. Students can identify the research problem and conduct research in the field of LIS, which includes metric studies and ICT.
12. Students gain the knowledge in conducting studies related to information needs and information-seeking behavior of patrons.

13. Candidate's eligibility for admission

A candidate who has passed **ANY** degree examination of this University or an examination of any other Universities / Institutions approved and accepted by the Syndicate of this University as equivalent thereto.

14. Duration of the programme

The duration of the course is two years. It consists of FOUR semesters under the Choice Based Credit System (CBCS). The minimum credit requirement for a two-year Master's programme shall be 91 credits.

15. CBCS- Structure of the Programme

The programme structure comprises two parts.

Course Component	No. of Courses	Hours of Learning	Marks	Marks Credits
Part A (Credit Courses)				
Core Courses	14	1152		1500
Elective Courses	5	144		500
Non-Elective Courses	2	108		200
Skill Enhancement	1			100
Extension Activity	1			100
Research				
Total	23			2400
Part B (Self-Learning Credit Courses)				
Elective Foundation Co				
Total				

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

I SEMESTER	Subject code	Paper	Credits	Hrs	Exam Hrs	Int.	Ext.	Total Mark
	26UPLIS1C01	Foundation of Library and Information Science	4	5	3	25	75	100
	26UPLIS1C02	Information Processing - Cataloguing & Classification (Theory)	4	5	3	25	75	100
	26UPLIS1C03	Management of Library and Information Centres	4	5	3	25	75	100
	26UPLIS1E01 26UPLIS1E02	Application of Information and Communication Technology in Libraries Digital Humanities and Research Analytics	3	4	3	25	75	100
	26UPLIS1L01	Information Processing – Classification – DDC & CC	6	6	3	40	60	100
		Library		1				
			21	26				
II SEMESTER	26UPLIS1C04	Information Sources and Services	4	4	3	25	75	100
	26UPLIS1C05	Library Automation and Digital Library (Theory)	4	4	3	25	75	100
	26UPLIS1L02	Information Processing and Retrieval - Cataloguing AACR II and UDC – Practice	6	6	3	40	60	100
	26UPLIS1E03 26UPLIS1E04	Academic Library System/ Public Library System	3	4	3	25	75	100
	26UPPGC1H01	Fundamentals of Human rights	2	0	3	25	75	100
		Library		1				
		Swayam online course						
			19	19				

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

III SEMESTER	26UPLIS1C06	Information Retrieval Systems	4	4	3	25	75	100
	26UPLIS1C07	Research methodology	4	4	3	25	75	100
	26UPLIS1C08	Archives and Museum	4	4	3	25	75	100
	26UPLIS1L03	Library Automation and Digital Library – Practice	6	6	3	40	60	100
	26UPLIS1E05 26UPLIS1E06	Electronic Resources Management / Library Networks Consortia and Resource Sharing	3	4	3	25	75	100
	26UPLIS1I01	Internship (Report and Presentation)	8			40	60	100
	26UPLIS1N01	NME – I	2	3	3	25	75	100
		Library		1				
			33	29				
IV SEMESTER	26UPLIS1C09	Marketing of Library and Information Centres	4	4	3	25	75	100
	26UPLIS1C010	Metric Studies	4	4	3	25	75	100
	26UPLIS1P01	Project with viva	6	10	3	40	60	100
	26UPLIS1E07 26UPLIS1E08 (Discipline Centric)	Entrepreneurship in Library & Information Science/ Corporate Libraries and Information Centres	3	3	3	25		100
	26UPLIS1S01	Skill Enhancement	2	2	3	25	75	100
	26UPLIS1X01	Extension Activity	1					
	26UPLIS1VAC	Value Added Course						
			20	23		650	75	2300
			93					

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

NME

1. **26UPLIS1N01-** Research and Publication Ethics
2. **26UPLIS1N02-** Electronic Information Sources
3. **26UPLIS1N03** -Information Literacy

Value Added Courses

1. **26UPLIS1VAC1-** Digital Information Literacy
2. **26UPLIS1VAC 2** -Web Technology in Libraries
3. **26UPLIS1VAC 3** -Open Knowledge System
4. **26UPLIS1VAC 4** -Artificial Intelligence in Libraries
5. **26UPLIS1VAC 5-** Scholarly Communication and Publishing Skills

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

FIRST SEMESTER

26UPLIS1C01: FOUNDATION OF LIBRARY AND INFORMATION SCIENCE

Course Objectives

- To know the concepts of information and different types of libraries and information centers.
- To enable the students to understand the Communication Channels and their barriers.
- To make the students identify the importance of information in the context of social, political, cultural, economic, and industrial environments.
- To understand the relevance of Library profession.
- To know the role of information in the development of society.

Unit –I

Nature of Information: Definition: Data, Information, Knowledge and Wisdom, Characteristics of information; Patterns and models of information, Factors influencing information growth, Information transfer cycle; Impact of socio-economic changes.

Unit – II

Communication: Concepts, definition, theories and models, Channels and Barriers of Communication.

Unit – III

Types of Libraries: Functions and Services; Five Laws of Library science and its implications; Professional Ethics and Qualities; Role of LIS professionals in the Digital era.

Unit - IV

Library movement and legislation in India – Model Library Bill, Delivery of Books and Newspapers Act – Intellectual Property Rights – Information policy, Right to Information, Knowledge Commission.

Unit – V

Professional Associations- Role of professional associations: National and International Levels – ILA, IASLIC, IATLIS, IFLA, ALA– UNESCO, INFLIBNET, RRRLF - Extension Activities– Evolution, growth, and development of LIS Schools in India.

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Text & Reference Books:

- Richard E Rubin. Foundations of Library and Information Science. New York, Neal-Schuman Publishers. 2004.
- Reitz, Joan M. Dictionary for Library and Information Science. Libraries Unlimited, 2004.
- Ranganathan, S. R. Five Laws of Library Science. 5th ed. Bangalore: Sarada Ranganathan Endowment for Library Science, 2006.
- Venkatappaiah, Velage, and Madhusudan, M. Public Library Legislation in the New Millennium: New Model Public Library Acts for the Union, States and Union Territories. Delhi: Bookwell, 2006.
- Budd, John, Knowledge and Knowing in Library and Information Science: A Philosophical Framework, Scarecrow Press.2001.
- Faruqi, Khalid Kamal & Alam, Mehtab, Net-Studies in Library and Information Science, Aakar Books. 2005.
- Henderson, Kathrine A., Case Studies in Library and Information Science Ethics, McFarland.2009.
- Rubin, Richard, Foundations of Library and Information Science, Neal-Schuman Publishers, Incorporated.2010.
- Saravanan, T., Library & Information Science, APH Publishing 2005.

Web Resources:

- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-001.pdf>
- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-002.pdf>
- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-004.pdf>
- <https://www.ilaindia.net/>
- <http://www.iatlis.org/>
- <http://www.iaslic1955.org.in/Default.aspx?PageID=62>
- <https://www.ifla.org/>
- <https://www.alastore.ala.org/content/chartered-institute-library-and-information-professionals-cilip>

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Course Outcomes

Upon successful completion of the course, students will

CO1	Understand the fundamental concepts and types of Libraries.	K1	LO
CO2	Know the effective communication with a variety of audience	K2	LO
CO3	Equip themselves with codes of ethics & fundamental laws of library science.	K3	LO
CO4	Understand library legislation & RTI	K2, K4	HO
CO5	Evaluate the role, functions, and responsibilities of Library associations at the National and International levels.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	-	S	S	M	S	M	M	-	-	S
CO2	S	S	-	L	M	S	M	M	S	-	-	M
CO3	S	M	-	S	S	M	L	M	M	-	-	S
CO4	S	S	-	M	M	S	M	L	S	-	-	M
CO5	S	M	-	S	S	M	L	M	M	-	-	L

***S-Strong; M-Medium; L-Low**

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

**26UPLIS1C02: INFORMATION PROCESSING – CATALOGUING & CLASSIFICATION –
THEORY**

Course Objectives

- To understand the concepts of knowledge organization.
- To learn the various classification schemes.
- To provide a historical and theoretical foundation for Cataloguing
- To understand principles of cataloguing codes
- To understand different forms of cataloguing

Unit- I Library Classification

Concept of library classification: Definition, Need and Purpose Functions and - Canons and Postulates - Knowledge and Book Classification and Book Knowledge Classification and Book Classification - Notation: Meaning, Need, Functions, Types, Qualities, Call number

Unit- II Subject Formation and Laws of Classification

Different Classification Schemes (DDC, UDC, LC, CC), Modes of Subject Formation - Normative Principles of Classification - Canons, Laws, Principles and their implications, Fundamental categories - Facet Sequences: Phase - Facet analysis. Recent Developments in classification

Unit-III Library Catalogue and Law of Catalogue

Meaning, Purpose, Structure, types and Functions, Normative Principles of Cataloging -Canons Laws Principles and their Implications

Unit- IV Types and Standard of Catalogue

Types of Catalogues -Physical Forms- Inner Forms- Subject Catalogues, Sear's List, Chain Indexing. Subject heading lists; thesauri and vocabulary control, Formats and Standards – ISBDs; MARC 21, Dublin Core, ISO 2709, UNIMARC, CCF and National formats, ISBN and ISSN

Unit- V Catalogue Arrangement

Centralized and Co-operative Cataloguing – CIP, Union Catalogue- Arrangement and Filing of Entries, Organization of digital resources, Recent Developments in Cataloguing.

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Text & Reference Books:

- Krishna Kumar, Theory of Classification, 2nd rev.ed. Delhi, Vikas, 2001.
- Kumar, P.S.G. Knowledge organization, information processing, and retrieval theory, Delhi: B. R. Publishing.2003
- Susan Batley: Classification in theory and practice, 2ndEd, Chandos publishing 2014.
- Ranganathan, S.R. & Malur Aji Gopinath, Prolegomena to Library Classification, Ess Ess Publications, 2006

Web Resources:

- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-010.pdf>
- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-011.pdf>
- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-009.pdf>
- <http://krishikosh.egranth.ac.in/bitstream/1/20325/1/46129.pdf>

Course Outcomes

Upon successful completion of the course, students will,

CO1	Students will understand the process related to constructing classification numbers.	K1	LO
CO2	Students will be able to know various systems for Classification.	K2	LO
CO3	To familiarize students with the process of cataloging a document	K3	LO
CO4	To attain the capabilities for retrieving the documents using a catalogue	K4	HO
CO5	To make the students aware of the latest developments and trends in the field of cataloguing	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	-	S	S	M	S	M	M	-	-	S
CO2	S	S	-	M	L	S	M	M	S	-	-	M
CO3	S	M	-	S	S	M	L	M	M	-	-	S
CO4	S	S	-	M	M	S	M	L	S	-	-	M
CO5	S	M	-	S	S	M	L	M	L	M	-	L

***S-Strong; M-Medium; L-Low**

26UPLIS1C03: MANAGEMENT OF LIBRARY AND INFORMATION CENTRES

Course Objectives

- To know the various Concepts of Management and its Evolution.
- To understand the various managerial operations, planning, and budgeting of Library and Information Centers.
- To apply the relevant management techniques in modern Libraries and Information Centers.
- To impart the techniques of library routines in both physical and online environments.

Unit-I: Principles of Library Management

Schools of Management Thought, Functions of Management, Taylor's Principles of Scientific Management; Henri Fayol's 14 Principles of Management; Elements of Management - POSDCORB; Levels of Management; Basics of Total Quality Management; Management Information system; Disaster management and Change management.

Unit-II: Resource Management & House Keeping

Collection Development Policy and Procedure, Selection Tools for Books and Non-Books Materials, Good Offices Committee; Various sections of library and information centers and their functions - Acquisitions section, technical section, Circulation section, Periodical section, Reference Section, Administrative Section, Stock arrangements - maintenance and Stock verification, weeding out / Write off policies; Binding and Preservation; Open vs closed access; Integrated Library Management System.

Unit-III: Financial Management

Sources of Funding, Budgeting technique PPBS, ZBB, Line budget; Cost-effective and cost-benefit analysis; Physical Infrastructure - Library Buildings, Furniture, and Equipment

Unit-IV: Human Resource Management

Recruitment procedures, Training and development, Job description, Job analysis; Job evaluation, DCP, Interpersonal relations, Motivation, Performance appraisal

Unit-V: Library Governance

Library authority; Library committee need and functions; Professional Ethics; Library rules and regulations; Annual Report and Library statistics; Norms for the library (AICTE, UGC, MCI, etc.), Skills required for 21st century Librarianship

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Texts & Reference Books:

- Krishnan Kumar: Library Administration and Management. New Delhi: Vikas, 1987.
- Mittal, RL 2007 Library Administration: Theory and Practice. ESS ESS Publications, 2nd Edition, New Delhi.
- Ranganathan, S.R.: Library administration. 2nd ed. Bombay, Asia
- Ranganathan, S.R.: Library Book Selection, ESS ESS Publications, 2nd Edition, New Delhi.
- Sethunath, V.S., and Ganesh Kumar, M, Librarianship in Digital Era, Crescent Publication Corporation, New Delhi, 2012.

Web Resources:

- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-015A.pdf>
- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-016A.pdf>
- <https://nios.ac.in/media/documents/SrSecLibrary/LCh-011.pdf>
- <http://www.lisbdnet.com/library-budget-objectives-methods/>
- <http://epgp.inflibnet.ac.in/ahl.php?csrno=21>
- <https://www.marxists.org/reference/subject/economics/taylor/index.htm>

Course Outcomes

On successful completion of the course, students will

CO1	Students understood management principles and other cross-disciplinary perspectives to develop best practices in libraries and information centers.	K1	LO
CO2	Understood the system of charging and discharging	K2	LO
CO3	Acquired knowledge of HRD, Budget, planning, and their relationship to the library environment.	K3	LO
CO4	Students have gained the skills to handle information resources effectively, from gathering and organizing information to distributing and preserving it.	K4	HO
CO5	Able to facilitate a variety of audiences.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	M	L	M	M	M	S	M	M	M
CO2	S	S	S	M	L	M	M	M	S	L	L	M
CO3	S	M	S	M	L	S	S	M	S	L	L	L
CO4	M	M	S	S	M	S	S	S	S	L	L	L
CO5	M	S	S	S	M	M	S	S	S	S	S	L

***S-Strong; M-Medium; L-Low**

**26UPLIS1E01: APPLICATION OF INFORMATION COMMUNICATION TECHNOLOGY
IN LIBRARIES**

Course Objectives

- To learn basic concepts of information technology.
- To know the personal computer for word processing, spread sheets
- To Acquaint with the aspects of Computer Applications and Network Technology
- To know various kinds of academic and social networks
- To know the database management

Unit I: Basic Concepts

Meaning and Definition of IT, Computers: Generations, Types, Hardware Input and Output Devices,

Unit II: Software

Introduction to System Software and Application Software, Operating Systems: Windows, Linux, and UNIX, Applications Software: Word Processing, Spreadsheets, PowerPoint, Access, Communication Software: E-mail, and Messaging

Unit III: Internet Technology

Basics of Internet, Search Engines and Meta Search Engines, Internet Search Techniques File Transfer Protocols: HTTP, SHTTP, FTP, Internet Protocols– SMTP, TCP/IP, Hypertext, Hypermedia, Multimedia, Video conferencing, Internet of Things (IoT), Ontology, Cloud Computing, Industry 4.0. Data Security, Firewalls, Anti-virus software

Unit IV: Academic Networks

Social Science Research Network, Academia, LinkedIn, Research Gate, Google scholar, Info Librarian and Mobile applications

Unit V: Database Management Systems

Database: Concepts and Components, Database Structures, Digital Rights Management (DRM), DOI, Artificial Intelligence, Cyber Security and Cyber Laws.

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Texts & Reference Books:

- Rajaraman, V., Introduction to Information Technology, 3rd ed. New Delhi, PHI Learning Pvt. Ltd., 2018.
- Rizwan Ahmed. P, Introduction to information Technology, Chennai, Margham Publications, 2013.
- Rajiv R. Paithankar, Govind S. Ghogare, Information Technology in Library Science, Anmol Publications Pvt. Ltd. New Delhi, 2015.
- Comer, D.E. The Internet book: Everything you need to know about computer networking and how the Internet works. Chapman and Hall/CRC, 2018.
- Davie, B.S., & Peterson, L.L. Computer networks. Gan Kaufmann, 2019.
- Hills, H. Power Searching the Internet: The Librarian's Quick Guide. ABC-CLIO, 2019.
- Panek, C. Windows Operating System Fundamentals. John Wiley & Sons, (2018).
- Cyber Security and Cyber Laws, Himalaya publishing house, Mumbai, 2025
- Radhakrishnan. N, Fundamentals of Information Technology, MJP publishers, Chennai, 2023
- Artificial Intelligence and Machine learning, Himalaya publishing house, Mumbai, 2025

Web Resources:

- https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/library_and_informationscience/academic_libraries/11._ict_application_in_academic_libraries_and_its_impact-2/et/2010_et_11.pdf
- <https://www.nic.in/servicesmapage/>
- <https://www.inflibnet.ac.in/>
- <http://www.delnet.in/>
- <http://oer.nios.ac.in/wiki/index.php/ICT-Application>

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Course Outcomes

On successful completion of the course, students will,

CO1	To remember the different kinds of input and output devices	K1
CO2	To understand the various software and tools	K2
CO3	To apply the tools available for Internet technology	K3
CO4	To analyze the need and purpose of academic networks and platforms	K4
CO5	To evaluate the database and its applications	K5

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	M	S	S	M	S	M	M	S
CO2	M	S	S	L	M	S	M	M	S	M
CO3	S	M	M	S	S	M	L	M	M	S
CO4	M	S	S	M	M	S	M	L	S	M
CO5	L	M	M	S	M	M	S	L	M	S

***S-Strong; M-Medium; L-Low**

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

26UPLIS1E02: DIGITAL HUMANITIES AND RESEARCH ANALYTICS

Course Objectives

- To understand the nature of Digital Humanities and its relevance to Library and Information Science.
- To enable students to apply digital research methods and research analytics techniques for humanities and social sciences.
- To develop skills in organizing, encoding, and managing digital contents, digital humanities projects.
- To familiarize students with data analysis, visualization, tools used in libraries.
- To equip students with the ability within libraries, archives.
- To enhance students' understanding of digital publishing, open access, and digital preservation.
- To prepare students for professional roles as digital librarians, research support specialists, and digital scholarship facilitators.

Unit – I: Digital Humanities – Concepts and LIS Perspective

Meaning, definition, nature, and scope of Digital Humanities (DH), Evolution from Humanities Computing to Digital Humanities, Interdisciplinary relationship between Humanities, LIS, and Information Technology, Role of libraries in Digital Humanities, Digital libraries as DH infrastructure, LIS professionals as digital curators and research partners

Unit – II: Digital Research Methods and Information Sources

Digital research lifecycle and LIS research support, Research data management (RDM), Digitized manuscripts, archives, rare books, Born-digital resources

Unit – III: Text Encoding, Metadata and Digital Content Organization

Markup languages: XML, HTML, Text Encoding Initiative (TEI) standards, encoding of literary and historical texts, Dublin Core, MODS, METS, Metadata creation for DH projects, Interoperability and metadata harvesting, Authority control and semantic metadata

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Unit – IV: Research Analytics and Visualization in LIS

Introduction to research analytics, Text mining and content analysis, Data cleaning and preprocessing, Information visualization techniques, Network analysis for scholarly communication, Library research impact analysis

Unit – V: Digital Humanities Projects, Preservation and Evaluation

Planning and management of DH projects, Collaboration between scholars and librarians, User-centered digital services, Digital editions, repositories, and DH platforms, Open access publishing and institutional repositories, Digital preservation strategies, Sustainability of DH projects, Evaluation of digital scholarship

Course Outcomes

After completing the course, students will be able to:

- Support Digital Humanities research in libraries
- Apply research analytics to humanities data
- Organize, preserve, and publish digital scholarly content
- Act as digital scholarship librarians

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C01	S	S	S	S	L	S	M	S	S	M	M	L
C02	S	S	M	M	M	M	S	M	M	S	M	L
C03	M	M	M	S	M	S	M	L	M	M	M	M
C04	M	L	M	S	S	M	M	S	M	L	S	M
C05	S	S	S	S	S	S	S	S	S	S	S	M

***S-Strong; M-Medium; L-Low**

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**26UPLIS1L01: INFORMATION PROCESSING –CLASSIFICATION - DDC & CC -
PRACTICE**

Course Objectives

- To gain practical knowledge about classification schemes.
- To know the process related to construct classification numbers for library resources (DDC, UDC & CC).
- To learn the library classification practice using DDC 22nd Ed and CC.
- Classification of documents according to the latest edition of DDC/CC. Every student should maintain practical records and submit the same at the time of practical examination.

Texts & Reference Books:

- DDC.23, OCLC Ohio,2003
- Ranganathan, S.R. Colon Classification Ed.6. Bombay, Asia Publishing House, 1960

web resources:

- <http://krishikosh.egranth.ac.in/bitstream/1/2061823/2/IISR-7.pdf>
- https://en.wikipedia.org/wiki/Dewey_Decimal_Classification
- <https://www.oclc.org/en/dewey/features/summaries.html>

Course Outcomes

On successful completion of the course, students will,

CO1	Students will understand the scheme of knowledge classification. Demonstrate understanding of subject headings, and use current and appropriate classification schemes.	K1	LO
CO2	Students will understand the process related to constructing classification numbers.	K2	LO
CO3	The student understands three systems of Classification.	K2, K3	LO
CO4	Make the class number for books and other reading materials	K4	HO
CO5	Earned skills for classifying all documents, including on-book materials and micro Documents.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

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Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	M	S	-	M	S	S	-	-	-	L
CO2	-	-	L	S	-	M	S	M	-	-	-	L
CO3	-	-	L	S	-	S	M	S	-	-	-	M
CO4	M	-	M	S	-	S	M	M	-	-	-	S
CO5	M	-	M	S	-	M	S	S	-	-	-	S

***S-Strong; M-Medium; L-Low**

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II SEMESTER

26UPLIS1C04: INFORMATION SOURCES AND SERVICES

Course Objectives

- To help students become familiar with different types of information sources.
- To train the students on various Library and Information Services in different library environments.
- To assist students in understanding how information systems work and their different types.
- To make aware of existing National and International Information Systems.

Unit – I

Types of Information Sources: Documentary - Primary, Secondary, Tertiary sources, Non-Documentary Sources - Human and institutional sources of information, government ministries and departments, R&D organizations, publishing houses, archives, data banks, information analysis centres, Electronic information Sources / Web Resources - Web portals, Subject Gateways, Wikipedia, Institutional repositories, E-Books, E-Journals, Databases – Full text, Bibliographical and Citation; Evaluation of Information Sources.

Unit – II

Reference Source – Types– Dictionaries, Encyclopedias, Biographical, Handbooks and Manuals, Geographical, Abstracting and Indexing sources, Bibliographical control – INB, BNB.

Unit – III

Information Services: Current Awareness Service, Selective Dissemination Service, Literature Search, Translation Service, Information Analysis and Consolidation Products, Document Delivery Service – Print & Electronic document delivery, Referral Service, Web-based Information Services - Blogs, Online Reference service etc, library apps, SMS alert, RSS Feed, Social Networking.

Unit – IV

Different kinds of information systems and Functions– NISCAIR - NASSDOC – DESIDOC – SENDOC – ENVIS, DELNET – INFLIBNET National Knowledge Networks.

Unit – V

Global Information System: INIS, AGRIS, INSPEC, MEDLARS, BIOSIS, ERIC, Patent Information System (PIS), Biotechnology Information System (BIS).

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Texts & References:

1. Gurdev, Singh, Information Sources, Services and Systems, Delhi, PHI Learning Private Limited, 2013.
2. Krishnan, Kumar, Reference Service, Vikas Publishers, New Delhi, 2008.
3. Sharma, C.K., Reference Service and Sources, Atlantic Publishers, Delhi, 2006.
4. Ranganathan, S.R., Reference Service, Ess Ess Publishers, Delhi, 2006.
5. Dhiman, Anil K., and Yashoda Rani, Learn Information and Reference Sources and Services, Ess Ess Publishers, New Delhi, 2005.
6. Devarajan, G. and Pulikuthiel, Joseph Kurien, Information Access, Tools, Services and Systems, Ess Ess Publishers, New Delhi, 2011.
7. Gorman, Digital Features in Information and Library Services, Chennai, Allied Publishers, 2002.

Web Resources:

1. <http://www.expertsmind.com/questions/qualities-of-indexing-and-abstractingperiodicals-30121941.aspx>
2. <https://egyankosh.ac.in/bitstream/123456789/35284/3/BLI-222%20B1-E.pdf>
3. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-012.pdf>
4. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-007.pdf>
5. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-008.pdf>

Learning Outcomes

On successful completion of the course, students will,

CO1	They were introduced to different types of information resources.	K1	LO
CO2	The students gained practical experience with various forms of resources.	K2	LO
CO3	Students have developed the ability to find accurate information from different sources.	K3	LO
CO4	They have improved their ability to evaluate information resources.	K4	HO
CO5	Students can navigate traditional and digital scholarly resources, including web resources.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

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Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	-	S	S	M	S	M	M	-	-	S
CO2	S	S	-	L	M	S	M	M	S	-	-	L
CO3	S	M	-	S	S	M	L	M	M	-	-	S
CO4	S	S	-	L	M	S	M	M	S	-	-	M
CO5	S	M	-	S	S	L	L	M	M	-	-	L

***S-Strong; M-Medium; L-Low**

26UPLIS1C05: LIBRARY AUTOMATION AND DIGITAL LIBRARY - THEORY

Course objectives

- To learn about Library automation and digital library.
- To enable the students to gain knowledge about the attributes involved in library automation and creating digital libraries.
- To explore the practical applications of library automation software and standards.
- To gain knowledge about various open source software.

Unit – I

Library Automation Basics: Definition, need, purpose and advantages. Automation vs. Mechanization. Areas of Automation– Acquisition, Cataloguing, Serials control and Circulation Access to Catalogue (OPAC), Web-enabled OPAC, Circulation, and Serial Control

Unit – II

Planning and Evolution of Library Automation Software Packages SW: Planning for Automation Procedure: Steps in Automation: Library services and technology Hardware and Software Selection and Implementation, History and Development of Library Software Packages in Indian Origin and Foreign, Criteria for Evaluation of Library Software Packages.

Unit – III

Digital Libraries Basics: Definitions, Concept, Characteristics, functions and advantages- DigitalLibrarycollection-MajorDigitalLibraryInitiatives – National Digital Library of India, Open data repositories.

Unit – IV

DL Architecture: Design and Organization of Digital Libraries: Architecture, Interoperability Protocols, and Standards, Study of Digital Library Softwares and Digital Preservation.

Unit – V

DSpace, GSDL, Koha, ABCD

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Text & Reference Books:

1. Chowdhury, G.G, Introduction to Digital Libraries. London: FacetPublishing,2003
2. Deegan, Marilyn & Tanner, Simon, (2002) Digital futures: strategies for the information age. London: Library Association.
3. Lakshmikant Mishra, Automation and Networking of Libraries, New Age International, 2008.
4. Rajiv Paithankar, Academic Library Automation, A B D Publishers, 2012
5. Alok Mani Tripathi, Learning Robotic Process Automation, Packt Publishing, 2018
6. Pandey S K Sharma, Fundamentals of Library Automation, ESS ESS, 2011

Web Resources:

1. https://epgp.inflibnet.ac.in/view_f.php?category=38
2. https://en.wikipedia.org/wiki/Digital_library
3. <https://iite.unesco.org/pics/publications/en/files/3214563.pdf>
4. <https://ndl.iitkgp.ac.in/>
5. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-003.pdf>
6. <http://www.librarysoftware.in/library-automation.html>

Course outcomes

On successful completion of the course,

CO1	To remember the need and purpose of Library automation	K1
CO2	To understand the software and hardware required for the automation	K2
CO3	To know the different kinds of digital Libraries and their initiatives	K3
CO4	To identify the standards, architecture methods for Digital Libraries	K4
CO5	To understand various kinds of open source softwares	K5

K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

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Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	S	M	S	S	M	S	M	M	S
CO2	M	S	S	L	M	S	M	M	S	M
CO3	S	M	M	S	S	M	L	M	M	S
CO4	M	S	S	M	M	S	M	L	S	M
CO5	L	M	M	S	M	M	S	L	M	S

***S-Strong; M-Medium; L-Low**

**26UPLIS1L02: INFORMATION PROCESSING AND RETRIEVAL - CATALOGUING
AACR II AND UDC – PRACTICE**

Course Objectives

- To help in understanding the rules of bibliographic description and rendering of access points;
- To understand to derive subject headings by using different subject headings.
- To learn to catalogue documents according to AACRII to learn to catalogue documents according to AACRII.

Cataloguing of Simple, compound, and composite documents and serials according to Classified Catalogue Code, 6th edition and AACR -II along with Sears List of Subject Headings.

Every student' shall maintain practical records and submits the same at the time of practical examination.

Cataloguing of Books and Periodicals according to Anglo American Catalogue Rules - II
(AACR-II)

Cataloguing of Books and Periodicals according to Universal Decimal Classification

Text &References:

1. Lal, C, and Kumar, K. (2006). Practical cataloguing AACR 2, New Delhi, Ess Ess Publications.
2. Mohd. Sabir Hussain and Jamal Ahmad Siddiqui, (2018) Practical Cataloguing with AACR
3. Sehgal. R. L (2005) cataloguing manual AACR 2, New Delhi, Ess Ess Publications
4. Joseph Miller (2010) SEARS List of Subject Headings 20 the edition The H. W. Wilson Company New York
2. Dr.Sing.KP (2013) UDCA Manual for Classification Practical and Information Resources, Today and tomorrow's Printers and Publishers New Delhi

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Web Resources:

1. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/library_and_information_science/knowledge_organization_and_processing__cataloguing/02._technical_processing/et/4475_et_m2.pdf
2. <http://egyankosh.ac.in/handle/123456789/33027>
3. <http://downloads.alcts.ala.org/ccda/docs/magert8.pdf>

Course Outcomes

Upon successful completion of the course, students will,

CO1	Learn the cataloguing code and classification scheme.	K1	LO
CO2	Prepare the catalogue entries for print and on-print materials using AACR II.	K2	LO
CO3	To know various forms of Catalogue.	K3	LO
CO4	Create a library catalogue according to the norms of AACR-II in a machine-readable format.	K4,K6	HO
CO5	To make the students familiar with Online Public Access Catalogue (OPAC)	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	L	L	S	M	L	M	M	L	-	-	M
CO2	L	M	M	S	S	S	-	M	M	-	-	S
CO3	M	M	M	S	S	M	-	S	M	L	L	L
CO4	M	S	S	S	L	M	-	L	M	M	M	M
CO5	S	L	M	S	M	S	M	L	S	S	S	M

***S- Strong; M-Medium; L-Low**

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26UPLIS1E03: ACADEMIC LIBRARY SYSTEM

Course Objectives

- To enable the students to understand the functions and purpose of the academic library.
- To introduce resources, services, and management issues about academic Libraries.
- To identify the critical policy planning factors and challenges in different academic Libraries
- To gain knowledge about the Green Library and tools in academic libraries.

Unit-I

Academic libraries and their users: Academic Library: Types and Functions, types of users, User needs, Role of UGC, AICTE and other Bodies in Academic Libraries development, NAAC, NBA and other nodal agencies in India.

Unit-II

Management of Academic Libraries: Collection Development: Selection of Resources, Nature, Types, and Policies. Financial Management of Academic Libraries, Curriculum and Collection Development, and Human Resource Management

Unit-III

Governance of Academic Libraries: Library Authority and Library Committee– Information Literacy, SWOT analysis, Entrepreneurship, Change Management, Quality Management, UNESCO – Policy and guidelines, User Survey, Research Scholars' forum.

Unit-IV

Data Mining skills, Publishing Industry, Research Support for academics, PRISMA –Review tool for research, Scholarly Communication

Unit-V

SDG 4 – Education, Green Initiatives, Green Library: Concept, Applications, Tools, Requirements, Issues, Projects, Consultancy, Future trends in Green Libraries,

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Texts & Reference Books

1. Krishnan Kumar and Sesh Patel, Libraries and Librarianship in India, New Delhi, Viva Books, 2001.
2. Devarajan, G, Resource Development in Academic Libraries, New Delhi, EssEss Publication, 1999.
3. Shri Nath Sahai, Academic Library System, Ess Ess Publications, New Delhi, 2009.
4. Gurudev Singh, Academic Library system and services, Ess Ess Publications New Delhi, 2015.

Web resources

1. <https://www.ugc.ac.in>
2. <https://www.aicteindia.org/>
3. <https://mciindia.org>
4. <https://naac.gov.in>

Course Outcomes

On successful completion of the course,

CO1	Students perform managerial functions, including planning, budgeting, and evaluation of ALS.	K1,K2	LO
CO2	Apply recent management techniques and tools for improving the academic library Services.	K2.K3	LO
CO3	Familiar with various resources of Academic Libraries.	K2	LO
CO4	Acquired skills and knowledge pertaining Academic Library environment.	K4	HO
CO5	Create a Network of academic libraries and Share the resources through the network.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

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Mapping with Programme Outcomes

COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	-	S	S	M	S	M	M	-	-	S
CO2	S	S	-	L	M	S	M	M	S	-	-	M
CO3	S	M	-	S	S	M	L	M	M	-	-	S
CO4	S	S	-	M	M	S	M	L	S	-	-	M
CO5	S	M	-	S	S	M	L	M	M	-	-	L

***S- Strong; M-Medium; L-Low**

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26UPLIS1E04: PUBLIC LIBRARY SYSTEM

Course Objectives:

- To provide basic concepts related to Public Library systems and services
- To introduce resources and standards related to the Public Library system
- To describe the roles and responsibilities of the Public Library in communities.

Unit-I

Fundamental: Concepts- Public Library: Origin and Growth - Public Library and Society- Agencies in the Promotion and Development of Public Library System- National Library Policy and Library Legislation, Role public Libraries in 215 centuries.

Unit-II

Resource Mobilizing: Public Library System: Resource Development - Development Plans and Resource Mobilization - Financial Resources - Physical and Documentary Resources - Human Resources

Unit-III

Administration: Management of Public Library System - Organisational Structure of Public Library System - Planning and Administration of Public Libraries - Public Library Norms, Standards, and Guidelines - Governance of Public Libraries - Performance Evaluation

Unit -IV

Services: Types of Library Services - Application of Information Technology in Public Libraries Services, Mobile Libraries PL Genesis: Public Library Scenario in India, UK, USA, and Canada

Unit-V

Financial Management - Financial resources of Public Libraries - Mobilization and Estimation of Public Library Finance, Budget: Different types of budgets and applications of PPBS in Public Libraries.

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Text & Reference Books:

1. Srivastava, A.K., Public Library System and Services, Creon Publications, New Delhi, 2013.
2. Ajaykumar Raval, Handbook of Public Library System, New Delhi, Discovery Publishing house Pvt Ltd, 2013.
3. Dhiman, Anil K. & Yashoda Rani. Learn Library and Society. New Delhi: Ess Ess Publication, 2005.
4. Isaac, K. A. Library legislation in India: A critical and comparative study of statelibraryActs. New Delhi: EssEssPublication, 2000.
5. American Library Association. Minimum standards for public library systems.Chicago: ALA.
6. Venkatappaiah, Velega. Public Library Legislation in the New Millennium. Bookwell, 2007
7. Goulding, Anne. Public Libraries in 21" Century: Defining Services and debating the future. Ashgate. United Kingdom. 2012.

Web resources:

1. <http://egyankosh.ac.in/handle/123456789/11387>
2. <https://www.ifla.org/files/assets/hq/publications/archive/the-public-library-service/publ97.pdf>

Course Outcomes

Upon successful completion of the course, students will

- CO1:** Understand the Public Library System and its role in societal development.
- CO2:** Know the professional ethics, qualities, and role in society at different levels.
- CO3:** Learn the need for library legislation and a functioning public library system.
- CO4:** Learn the resources and services to broaden diverse perspectives.
- CO5:** Equip themselves about the status of the public library in other countries

26UPPGCIHO1: FUNDAMENTALS OF HUMAN RIGHTS

Course Objectives

- To learn about Basic Facets of Human Rights.
- To understand the development of human rights in India.
- To know the various rights pertaining to marginalized and other disadvantaged people.
- To help the students to know various human rights movements.
- To make the students to be aware of human rights redressal mechanisms.

Unit – I: Introduction

Introduction: Meaning and Definitions of Human Rights - Characteristics and Importance of Human Rights - Evolution of Human Rights Formation, Structure and Functions of the UNO - Universal Declaration of Human Rights, International Covenants, Violations of Human Rights in the Contemporary Era.

Unit –II: Civil, Political and Economic Rights

Human Rights in India: Development of Human Rights in India - Constituent Assembly and Indian Constitution Fundamental Rights and its Classification - Directive Principles of State Policy – Fundamental duties.

Unit –III: Human Rights Activities in India

Rights of Marginalized and other Disadvantaged People: Rights of Women Rights of Children, Rights of Differently Abled - Rights of Elderly Rights of Scheduled Castes - Rights of Scheduled Tribes - Rights of Minorities - -Rights of Prisoners - Rights of Persons Living with HIVAIDS - Rights of LGBT.

Unit –IV: Human Rights Movements for Social Development

Human Rights Movements: Peasant Movements Movements (Tebhaga and Telangana)- Scheduled Caste (Mahar and Ad-Dharmi) Tribes Movements Scheduled (Santhal and Munda) Environmental Movements (Chipko and Narmada) - Bachao Andolan) - Social Reform Movements (Vaikom and Self Respect).

Unit –V: Human Rights Violation

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Redressal Mechanisms: Protection of Human Rights Act, 1993 (Amendment 2019) Structure and Functions of National and State Human Rights Commissions - National Commission for SCs National Commission for STs - National Commission for Women - National Commission for Minorities Characteristics and Objectives of Human Rights Education

Text & Reference Books:

1. Sudarshanam Rawat Gankidi, Human Rights in India: Prospective and Retrospective, Publications, Jaipur, 2019.
2. Satvinder Juss, Human Rights in India, Routledge, New Delhi, 2020.
3. Namita Gupta, Social Justice and Human Rights in India, Rawat Publications, Jaipur, 2021. 2014.
4. Mark Frezo, The Sociology of Human Rights, John Willy & Sons, U.K.
5. Chiranjivi J. Nirmal, Human Rights in India: Historical, Social and Political Perspectives, Oxford University Press, New York, 2000.
6. Dr. S. Mehartaj Begum, Human Rights in India: Issues and perspectives, APH Publishing Corporation, New Delhi, 2010.
7. Asha Kiran, The History of Human Rights, Mangalam Publications, Delhi.

Course Outcomes

Upon successful completion of the course, students will

CO1	Understand the basic facets of human rights	PO4, PO6, PO1
CO2	Comprehend the Constitutional provisions of human rights in India	PO1, PO2
CO3	Grasp the rights of the marginalized and other disadvantaged people in India	PO4, PO5
CO4	Know the historical background of the various human rights movement in India.	PO6
CO5	Understand the redressal mechanism of the human rights violations	PO3, PO8

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Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	M	M
CO2	S	S	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M	S	M
CO4	S	S	S	S	S	M	M	S	S	S	S	L
CO5	S	S	S	S	S	S	S	S	S	S	S	M

***S-Strong; M-Medium; L-Low**

III SEMESTER

26UPLIS1C06: INFORMATION RETRIEVAL SYSTEM

Course Objectives

- To know the basic concepts of IRS.
- To understand the concept of thesaurus and vocabulary control.
- To know the various subject indexing and searching techniques.
- To know the information retrieval models.

Unit I

Introduction IR Systems– Concept, definition, characteristics, components, Scope, and Importance, functions, Subject indexing - Meaning, Purpose, and Types.

Unit II

Indexing Languages and Vocabulary Control– Need, Purpose, Types, and Characteristics; Vocabulary control tools Subject heading– Library of Congress Subject Headings, Sears List of Subject Heading and Medical Subject Headings, Thesaurus construction techniques.

Unit III

Digital IR Systems Web IR: Meaning scope, characteristics, Types - Online IR, Optical-disk based IR, OPAC, and Web IR Search engines, Meta search engines, Subject Gateways.

Unit IV

Searching Techniques and Models: Search strategies, Boolean Search, Proximity Search, Federated search, Truncation; Retrieval Models- Cognitive, Probabilistic; Vector models Search Services, Tools of Internet Search, Search engines, multiple databases searching.

Unit V

Evaluation and Trends IR Evaluation – recent trends in IR, Evaluation Methodology: Criteria and Steps in Evaluation: Recall and Precision ratio.

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Texts & Reference Books:

1. Chowdhury (G.G.): An introduction to modern information retrieval. 3rd ed. London: Facet, 2010.
2. Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze, Introduction to Information Retrieval, Cambridge University Press, 2008.
3. Carol Peters, Martin Braschler, Paul Clough (2012). Multilingual Information Retrieval: From Research to Practice, Heidelberg: Springer
4. Kumar: Information Analysis, Repackaging, Consolidation and Information Retrieval; papers X and XI of UGC Model Curriculum, B R Publishing Corporation.

Web Resources:

1. www.ijnlglt.com
1. <https://www.cse.iitk.ac.in/users/nsrivast/HCC/search%20engines.pdf>
2. https://upload.wikimedia.org/wikipedia/commons/1/17/Evaluation_of_information_retrieval_system_purpose_and_retrieval.pdf

Course Outcomes

On successful completion of the course,

CO1	Understand the creation of the IR System.	K1	LO
CO2	To identify thesaurus applications in new indexing environments such as subject gateways, portals, and digital libraries.	K2	LO
CO3	To learn the developed skills of information search strategies and how to implement the library services.	K3	LO
CO4	To retrieve documents precisely by using different search strategies	K4	HO
CO5	Analyze and evaluate different types of IR systems in terms of their interfaces, performance, and other components.	K4.K5	HO

K1- Remember, K2- Understand, K3- Apply , K4- Analyze, K5- Evaluate, K6- Create

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Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	S	M	M	M	M	M	L	L	M
CO2	M	S		S	M	S	M	M	L	-	-	M
CO3	M	M	S	M	L	S	L	L	L	-	-	L
CO4	S	M	M	S	M	S	S	S	S	M	M	S
CO5	S	L	S	S	M	M	S	S	M	S	S	S

***S- Strong; M-Medium; L-Low**

26UPLIS1C07: RESEARCH METHODOLOGY

Course Objectives

- To understand the concepts related to research and types of research.
- To identify the overall process of research design.
- To know various tools for data collection, data analysis, and skills required for report writing.
- To help in identifying research information sources in LIS
- To explore the trends of LIS research in India and abroad

Unit – I

Research: Definition, Purpose, and Scope types of Research: Fundamental / Pure Vs. Applied, Inter-Disciplinary Vs. Multidisciplinary, Individual Vs. Collaborative research; Research Ethics: COPE, WAME, UGC regulations on Plagiarism; Areas in Library and Information Science.

Unit – II

Research Design: Identification, Selection, and Formulation of a Research Problem, Characteristics of the research problem, Sources of Information; Hypothesis: Definition and types, testing hypothesis; Literature Search, Objectives and Methods of Review of related literature and meta-analysis.

Unit – III

Research Methods: Historical, Descriptive, Experimental, Case-Study, Survey Method, Scientific Method.

Unit – IV

Methods Data Collection: Primary data - Questionnaire, Interview, Observation; Secondary data, Scaling techniques, Bibliometric, Scientometrics, Webmetrics, and Altmetric.

Unit – V

Data Analysis and Presentation: Editing, Coding, and De-Coding, Tabulation; Application of Statistical Packages: Measures of central tendency, Correlation, Regression, Chi-Square Test. Report

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writing: Components of Research Report; Style Manuals, Presentation of data - Tabular, graphic, bar diagram, pie, line graphics; Reference Management Tools, Academic Social Networks.

Texts & Reference Books:

1. Kothari, C. R. Research Methodology – Methods & Techniques. New Delhi, New Age, 2014.
2. Panda, B. D. Research Methodology for Library Science: with Statistical Methods and Bibliometrics New Delhi; Anmol, 1997.
3. Bhattacharyya, D K., Research Methodology. New Delhi: Excel Books India, 2009.
4. Singh, Y. K: Research Methodology, New Delhi: APH Publishing, 2010.
5. Gopikuttan, A., Research @ library and information science, ESS ESS Publications, 2011.

Web Resources:

1. https://www.youtube.com/watch?v=IZLn9_PA_4s
2. https://en.wikibooks.org/wiki/Research_Methods/Types_of_Research

Course Outcome

On successful completion of the course, students will

CO1	To learn about the research methods, statistical techniques, and their application in LIS.	K1	LO
CO2	To ascertain research support tools and research communication process.	K2	LO
CO3	Learn various tools for data collection and data analysis.	K3,	HO
CO4	Learn how to write the research report.	K3	LO
CO5	Understanding of research necessary for careers as information professionals at par with global level.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

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Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	-	M
CO2	S	S	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M	S	M
CO4	S	S	S	S	S	M	M	S	S	S	S	L
CO5	S	S	S	S	S	S	S	S	S	S	S	M

***S-Strong; M-Medium; L-Low**

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26UPLIS1C08: ARCHIVES AND MUSEUM

Course Objectives

- To understand the concept of preservation and conservation of library materials.
- To understand issues in digital preservation
- To learn the role of Archival centers.

Unit-I

History and Development of museum, types of Archival Centers, Scope and functions (Aims and objectives), Kind and identification of Archival material

Unit-II

Organization and Management of Archival and Manuscripts - Acquisition, Classification, Cataloguing and Indexing of Archival material, Source material on Archival, Storage procedure and maintaining collections, Manuscripts, Machine Readable and Microfilm of Archival records, Database and Digitization of Archives.

Unit-III

Preservation of Archives - Conservation of Sculpture, Terracotta, Manuscript Preservation, Textiles Preservation, Metal objects Preservation, Folk objects Preservation, Painting Preservation, Cause of Deterioration, Environmental Pollution - Physical, Chemical and Atmospheric, Biological enemies of materials - Mould, Fungi, Insect and Rodents.

Unit-IV

Archival representation and metadata - With references to the representation of archival materials institute of Museum and Libraries Services (IMLS) framework metadata standards for archival materials - AGLS metadata sets including Australian Government Record keeping Metadata Standards and implementation manuals Dublin Core MODS and METS standards.

Unit-V

Rehabilitation of Documents, Use of Copy Right to information in relation to archives, Role of UNESCO and other agencies

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Text & References:

1. Digital preservation for libraries and museums, Edward M. Corrado, published by Rowman and Littlefield.
2. Best of Both Worlds; museums, libraries, and archives in a Digital age, G. Wayne clough, published by Smithsonian institution.
3. Smith Bautista, Susana. 2014. Museums in the Digital Age: Changing Meanings of Places, Community and Culture. New York: Altamira Press.
4. Agrawal, O.P. 2003. Status of Conservation in India. Studies in Museology, Vol.36. 2003.pp1-8.
5. Seth, Manvi. 2012. Communication and Education in Indian Museums. Agam Kala Prakashan, New Delhi.
6. K.Mahapatra and B.Chakrabarti. Preservation in Libraries: Perspectives, Principles and Practices EssEss Publications, New Delhi, 2003.
7. L.S.Ramaiah and G.Sujatha. Preservation of Library Archival and Digital Documents Ess Ess Publications, New Delhi, 2008.
8. Jyoti Misra: Conservation and Preservation Techniques: A Handbook for Librarians, New Royal Book Company, Lucknow, 2010.
9. Balloffet, N., Hille, J., & Reed, J. A. (2005). Preservation and conservation of libraries and archives. Chicago: ALA

Web resources:

1. https://shodhganga.inflibnet.ac.in/bitstream/10603/96470/11/11_chapter%203.pdf
2. <http://ir.inflibnet.ac.in/bitstream/1944/1466/1/8.pdf>
3. https://en.wikipedia.org/wiki/National_Archives_of_India
4. <https://www.colorado.edu/libraries/sites/default/files/attached-files/preservationlinks.pdf>

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Course Outcomes

Upon successful completion of the course, students will

CO1	Understand the importance of preservation in libraries	K1	LO
CO2	To identify appropriate methods for preservation	K2	LO
CO3	To familiarize the various methods of preservation.	K3	LO
CO4	To know various archival centers and their functions in India.	K4	HO
CO5	Preservation of materials and conservation resources for future reference.	K5	HO

K1- Remember, K2- Understand, K3- Apply , K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	M	M
CO2	S	S	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M	S	M
CO4	S	S	S	S	S	M	M	S	S	S	S	L
CO5	S	S	S	S	S	S	S	S	S	S	S	M

***S-Strong; M-Medium; L-Low**

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**26UPLIS1L03: LIBRARY AUTOMATION AND DIGITAL LIBRARY -
PRACTICE**

Course objectives

- To provide practical knowledge related to Library Automation and Digital Libraries.
- To introduce standards and Software related to digital library systems
- To explore the applications of Software and standards in developing digital library systems
- To give hands - on training– Library automation software and Digital library.

Hands-on Training:

1. Library Automation Software: KOHA
2. Digital Library Software Packages: Digitization, Selection, Scanning process, Conversion formats.
3. Greenstone and D-space – Creation of Communities, Collection, and Submission methods
4. Institutional Repositories, Thematic Repositories
5. Web Technologies : Weblog; Website; mobile applications Software

Course outcome

On successful completion of the course,

CO1	Students will comprehend technology concepts and theories and understand the relevance.	K1	LO
CO2	Become familiar with storing, delivering, and disseminating digital materials in a networked environment	K2	LO
CO3	Evaluate the digital libraries and the implications.	K3,K5	HO
CO4	Students will gain potential uses of Web technologies in libraries.	K4	HO
CO5	To make the students aware of the latest developments and trends in the field of ICT.	K3,K4,K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

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Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	S	S
CO2	S	S	S	S	S	S	S	S	M	M	M	M
CO3	S	S	S	S	S	S	M	M	M	S	-	M
CO4	S	S	S	S	M	M	S	S	S	S	-	S
CO5	S	S	S	S	S	S	S	S	S	S	-	S

***S- Strong; M-Medium; L-Low**

26UPLIS1E05: ELECTRONIC RESOURCE MANAGEMENT

Course Objectives

- To Understand the concept and scope of Electronic Resource Management (ERM) in academic, research, and special libraries.
- To Identify and evaluate different types of electronic resources, such as e-journals, e-books, online databases, institutional repositories, and open access resources.
- To analyze the life cycle of electronic resources, including selection, acquisition, licensing, access provision, maintenance, and renewal.
- To develop skills in managing licenses and legal issues.

Unit 1: Electronic Resources – Concepts, Types and Trends

Definition, Nature, and Scope and Characteristics of Electronic Resources (e-Resources), Advantages and Limitations, Types of e-Resources, DOI, Digital Object Life cycle; emerging formats

Unit 2: Developing Collection of e-Resources

Policies for Collection Building

Selection Criteria, Relevance, Authority, Format, Licensing Terms, Steps in e-Resource Collection Building: Policy Formulation, Budgeting, Selection, Training, Trial Access, Negotiation, Subscription, Renewal, Usage Review - Counter / SUSHI

Licensing Models

Site License, Concurrent User License, Perpetual Access, Pay-Per-View, Understanding License Clauses: Access Rights, Archival Rights, Usage Restrictions.

Consortia for e-Resources

Concept, Advantages Major National Consortia in India: INFLIBNET (e-Shodhsindhu), UGC-INFONET, N-LIST, CeRA, NML-ERMED-India, One Nation One Subscription (ONOS) – Concept, Vision, Status, Implementation Strategy.

Unit 3: Access Management and Delivery of e-Resources

Delivery Mechanisms:

Web Portals, Discovery Tools, Federated Search, A-Z Lists, Integrated Library Systems User Centered Access Design - Subject-based, Alphabetical, Publisher- based, Database-wise navigation; Access Management Techniques - IP Authentication, Proxy Servers, Shibboleth, SAML, Open

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Athens, LDAP, Remote Access Tools. Preservation & Archiving of e-Resources- LOCKSS, CLOCKSS, Portico; Digital Rights Management (DRM) - Fair Use, Creative Commons, Copyright Infringement.

Unit 4: User Education & Training and Usage

Digital Literacy Workshops, InfoLit Modules, Tutorials, User Manuals e-Resource Publicity Strategies - Email Alerts, Newsletters, Library Website, Social Media Campaigns, Pop-Ups.

Data Collection Methods: Log Files, User Feedback, Surveys, Web Analytics, Tools for Usage Analysis - Google Analytics, COUNTER-compliant Vendor Reports, SUSHI Protocol, EZproxy Logs

Unit 5: Future Trends and Innovations in e-Resources

Emerging modules - Read-and-Publish, Publish-and-Read, APC-free Journals

Linked Open Data (LOD), Content Syndication and Aggregators - EBSCOhost, JSTOR, ScienceDirect, SpringerLink

Open Access Movement - Plan S, Unpaywall, DOAJ, OA mandates

Global Policies Influencing e-Resources - UNESCO's Open Science Recommendation National Digital Library of India (NDLI), Open Science India Initiatives

Text & References:

1. Yu, Holly and Breivold, Scott. Electronic Resource Management in Libraries: Research and Practice. IGI Global, 2008.
2. Conger, Joan E. Collaborative Electronic Resource Management: From Acquisitions to Assessment. Libraries Unlimited, 2004.
3. Curtis, Donnelly. E-Journals: How to do it Manual. Facet Publishing, 2005.
4. Fecko, Mary Beth. Electronic Resources: Access and Issues. Bowker-Saur, 1997.
5. Lee, Stuart D. & Boyle, Frances. Building an Electronic Resource Collection. 2nd ed. Facet Publishing, 2004.
6. Mitchell, Anne M. & Surratt, Brian E. Cataloging and Organizing Digital Resources. Facet Publishing, 2005.

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Course Outcomes

On successful completion of the course, students will

CO1	Students comprehend the full life-cycle of electronic resources
CO2	Graduates can implement workflows for e-resource trials, renewals, access troubleshooting, and usage data analysis
CO3	Graduates promote e-resources effectively, enhancing visibility, user trust, and library impact on teaching, research, and innovation.
CO4	Graduates understand the role of library consortia, open access initiatives, and national/international ERM models.
CO5	Apply legal, ethical, and licensing principles related to electronic resources, including copyright, DRM, fair use, and consortia agreements.

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	M	M
CO2	S	S	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M	S	M
CO4	S	S	S	S	S	M	M	S	S	S	S	L
CO5	S	S	S	S	S	S	S	S	S	S	S	M

***S-Strong; M-Medium; L-Low**

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26UPLIS1E06: LIBRARY NETWORKS CONSORTIA AND RESOURCE SHARING

Course Objectives

- To learn the need, purpose, and methods of resource sharing.
- To familiarize various library networks and Consortia.
- To know the features of different forms and sources of networks
- To know the process of retrieving databases and online/web information resources in the network environment

Unit- I Resource Sharing

Introduction, Need, Objectives, Advantages, and Barriers; Resource Sharing through Networks

Unit– II Library Networks at National Level

Definition, Need, Initiatives in India: MYLIBNET, CALIBNET, DELNET, ADNET, BONET, PUNENET, MALIBNET, NICNET, ERNET, INFLIBNET, and BTISNET, etc.

Unit– III Library Networks at International Level

OCLC, CURL, RLG, JANET, CALIS, and AARLIN

Unit– IV Consortium

Meaning, The chronology of the Indian Consortium, types of consortia – Central Funded Consortium, Open Consortia, Closed Consortia, and National Consortia.

Unit–V Initiatives in India:

e-shodhsindhu consortium, FORSA, IIM Consortium, HELINET, Cera, MCIT Library Consortium, NKRC E-journal Consortium, ERMED Consortium, ICARNET, DAE Consortium. International: LYRASIS, Finnish National Electronic Library (FinELib) in Finland library consortia, SCONUL - UK Academic Library Consortia, National and State Libraries Australia (NSLA) e Resources Consortium.

Text &Reference Books:

1. Balakrishnan, Shyam Networking and the future of libraries. New Delhi: EssEss, 2000.
2. Jha, P. K. (2001). Library networks and network based Information Services in India (Doctoral dissertation, Dissertation. Indian National Scientific Documentation Centre).

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3. Kaul, S. (2001). Information resource sharing models in developing countries: a network emerging from the World Bank supported environmental management capacity building project. *Inspel*, 35(1), 9-26.
4. Prasad, Kiran. Information and Communication Technology. New Delhi: B. R. Publishers, 2004.
5. Ramamurthy, C.R. Globalisation and Library Information Networking. New Delhi: Author Press, 2003
6. Manjunatha, K. & Shivalingaiah, D.: Electronic resources sharing in Academic libraries. 2003

Web Resources:

1. www.alibnet.org
2. www.calibnet.org
3. <http://delnet.nic.in>
4. <http://www.angelfire.com/in/malibnet>
5. <http://www.inflibnet.ac.in>
6. <http://www.mylibnet.org>
7. <http://dsl.drdo.gov.in>
8. <http://malibnetonline.com/>

Course Outcomes

On successful completion of the course, students will

CO1	Students familiar with consortia in different levels and subjects	K1	LO
CO2	Attained knowledge of Library Networks	K2	LO
CO3	Enable the students to obtain knowledge about online databases and resource sharing	K3	LO
CO4	Gained knowledge in resource-sharing techniques and procedures	K2,K4	HO
CO5	To make the students aware of the latest developments and trends in the field of Resource sharing	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

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Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	-	S	S	M	S	M	M	-	-	S
CO2	S	S	-	L	M	S	M	M	S	-	-	M
CO3	S	M	-	S	S	M	L	M	M	-	-	S
CO4	S	S	-	M	M	S	M	L	S	-	-	M

***S-Strong; M-Medium; L-Low**

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26UPLIS1I01: INTERNSHIP – (Report and Presentation)

Course Objectives

- To enhance their skills and knowledge in a specific area of information service.
- To train them to enhance their efficiency in managing all sections in the library.
- To train them to adapt to the existing working conditions in the library.

The internship is a training program that combines learning new library skills outside the classroom and demonstrating skills. The duration of the internship will be **three weeks**.

Leave Norms:

- During the course, one casual leave is permitted.
- If they take more than one CL, he/ she should compensate the same by the local library.

Course Outcomes

On successful completion of the course, students will

CO1	Acquire skills in managing various sections in the library.	K1	LO
CO2	Acquire knowledge of various records management in the library.	K2	LO
CO3	Develop and manage collections of information resources.	K2	LO
CO4	Students can Learn to apply training skills in their Library	K3	HO
CO5	To enhance of Analyze and Evaluate their skills	K4,K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	M	M
CO2	S	S	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M	S	M
CO4	S	S	S	S	S	M	M	S	S	S	S	L
CO5	S	S	S	S	S	S	S	S	S	S	S	M

*S- Strong; M-Medium; L-Low

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IV SEMESTER

26UPLIS1C09: MARKETING OF LIBRARY AND INFORMATION CENTRES

Course Objectives

- To understand the value of information as an economic resource and its management.
- To learn the marketing strategies of information products and services.
- To understand the common problem faced by the users to access the information Product & services.

Unit -I

Information as a Commodity and Resource: Economics of information– Marketing Concepts, Need, and Scope – Marketing LIS.

Unit II

Concept of Marketing: Marketing Mix, Kotler's Four C's – McCarthy's Four P's. Corporate Mission

Unit III

Marketing Strategies and Planning – Nature and models of marketing strategy and planning; Situation audit and analysis; SWOT analysis, 7S framework, Boston Consulting Group, Matrix, Ansoff's Growth Matrix, Product Life Cycle. Performance and Impact Analysis.

Unit -IV

Marketing Research: Elements, Market Segmentation and Targeting– Geographic and Demographic Segmentation– Behavioral Segmentation– Psychographics Segmentation - User Behavior and Adoption

Unit -V

Trends in Marketing Library – Role of Social Media in Marketing of Information – Case Specific Strategies.

Texts &Reference Books:

1. Mah – E – Bushra Asghar and Rubina Bhatti, Marketing of library and information services and products, Lambert Academic Publishing, 20
2. HareRam Singh, E-Marketing, Anmol Publications Pvt. Ltd., New Delhi, 2011 Bahuguna, Pallavi, International Marketing, Anmol Publications Pvt. Ltd., New Delhi, 2011.

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3. Philip T. Kotler, Principles of Marketing, Pearson Publications, Gary Armstrong, University of North Carolina, 2016.

Web Resources:

1. https://en.wikipedia.org/wiki/Marketing_mix
2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/library_and_information_science/information_sources,_systems_and_services/26._international_information_systems__programs/_et/1941_et_et.pdf

Course Outcomes

Upon successful completion of the course, students will

CO1	Acquire marketing skills for information products and services.	K1	LO
CO2	They gained the knowledge of pricing of information.	K2	LO
CO3	Gained knowledge regarding the role of information industries	K3	LO
CO4	Developed the skills set in the marketing of information products and services matching user needs.	K4	HO
CO5	Attained the skills of information products and marketing based on user demands.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	S	L	S	M	S	S	M	-	M
CO2	S	S	M	M	M	M	S	M	M	S	-	M
CO3	M	M	M	S	M	S	M	L	M	M	-	L
CO4	M	M	L	S	M	S	S	M	S	M	-	L
CO5	S	S	M	M	S	M	S	M	S	L	-	S

***S- Strong; M-Medium; L-Low**

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26UPLIS1C10: METRIC STUDIES

Course Objectives

- To provide basic concepts related to the application of quantitative techniques in LIS
- To help in understanding laws, techniques, tools, and services related to bibliometrics, informetric, webometrics, and altmetric.
- To study publication indicators, citations, impact factors, and, h-index
- To explore the future applications of Bibliometrics.

Unit-I

Historical development, meaning, definition, and scope Features, Bibliometrics, Libra metrics, Scientometrics, Informetric, Webometrics, Cybermetrics, and Altmetric.

Unit-II

Laws and Indicators: Laws and Application of Bibliometrics, Other Empirical Laws of Price, Garfield, Sengupta, etc.

Unit-III

Citation Analysis: Techniques Citation, Co-word, Co-Citation, Network analysis, collaboration, Bibliographic Coupling, Impact Factor, h-index, half-life, and g-index, i10-index.

Unit- IV

Bibliometric tools: Web of Science, SCOPUS, MEDLINE, Google Scholar, Pop, and EBSCO, Hiscite, Bibliometrix, Bibexcel, Biblioshiny, VOSViewer, and Pajek.

Unit-V

Application of Quantitative and Qualitative tools and techniques in LIS Research

Text & Reference Books:

1. Rafael Ball: An introduction to Bibliometrics 1 stEd Chandos Publishing, 2017.
2. Srivastava. R: Bibliometrics: New Dimensions and latest trends, Alfa publications, 2011.
3. Bibhu Prasad Panda: A Model Bibliometric study, SSDN Publisher & Distributors, New Delhi, 2012
4. Ingwersen, P., Scientometric indicators and webometrics-- and the poly representation principle in information retrieval. New Delhi: EssEss Publications, 2012.

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Web resources:

1. http://eprints.rclis.org/12847/1/Bailon-Moreno,_R_.pdf
2. <https://www.essay.uk.com/free-essays/science/bibliometrics-citation-citation-analysis.php>
3. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/library_andinformation_science/informetrics_&_scientometrics/data_sources_and_software_tools_for_bibliometric_studies/et/333_et_m2.pdf

Course Outcomes

On successful completion of the course, students will

CO1	To gain knowledge about citation index and citation database.	K1	LO
CO2	To gain knowledge of various laws of Bibliometrics	K2	LO
CO3	Learn various Software related to Bibliometrics data analysis.	K3	LO
CO4	Gained knowledge about bibliographical databases.	K2,K4	HO
CO5	To learn about their search methods, statistical techniques, and their application in	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	S	L	S	M	S	S	M	S	M
CO2	S	S	M	M	S	M	S	S	M	S	S	M
CO3	M	M	S	S	S	S	M	L	M	M	S	L
CO4	M	M	L	S	M	S	S	M	S	M	S	M
CO5	S	S	M	M	S	M	S	S	S	L	S	S

***S- Strong; M-Medium; L-Low**

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26UPLIS1P01 – PROJECT WITH VIVA

Common Guidelines for the evaluation of Dissertation and Vive-Voce

Marks 100

Guidelines for Teachers

- The project/Dissertation should be done under the supervision of a teacher of the department.
- The research supervisor and its member should be finalized at the beginning of the fourth semester.
- Students should identify their topics from the list provided in consultation with the supervising teacher.
- Credit will be given to original contributions. So students should not be allowed to copy from other projects or WWW.
- Before submission of the project, there will be conducted two review meeting. During the meeting, students were asked to present a PowerPoint presentation, each review 20 marks (20 x 2= 40 marks)
- There will be an external evaluation of the project by an external examiner appointed by the University. He / She will value the project for 40 marks. This will be followed by a viva voce, which will be conducted in the department jointly by the external examiner who valued the projects/dissertations and an internal examiner. The viva-voce will be for 20 marks.
- Four copies have to be submitted to the department by each student. One copy will be forwarded to the University for Valuation, and the second copy is to be retained in the department library.

26UPLIS1E07: ENTREPRENEURSHIP IN LIBRARY AND INFORMATION SCIENCE

Objectives

- To learn the importance of entrepreneurship for LIS professionals
- To apply innovation and creativity in LIS services
- To identify LIS-based entrepreneurial opportunities
- To brand and rebranding library & Information Services
- To identify the procedures for establishing enterprises.

Unit I

Definition and Origin of Entrepreneurship, Characteristics and Types of Entrepreneurships, Entrepreneurship Education and Importance of Entrepreneurship

Unit II

Theories of Entrepreneurship, Concept of Innovation and Creativity for Capacity Building Capacity Building Skills

Unit III

Opportunity and Employment Creation, Types of Marketing Strategies for Business Growth, Capital Requirement for Developing a Venture, Entrepreneurial Opportunities Available to LIS Graduates

Unit IV

Various aspects of a Business Plan, Steps in Writing Business Plan, Definition and Features of Business Proposal, Steps in Writing Business Proposal

Unit V

Management and Managers, Functions of Managers – (Planning, Organizing, Controlling, Staffing etc)., Characteristics of Business Enterprise, Branding and Rebranding Library & Information Services, Building Library Professionals for Entrepreneurship, Best Practices in, LIS Entrepreneurship

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Learning Outcomes:

1. Explain the role of entrepreneurship in transforming LIS professions.
2. Develop entrepreneurial and managerial skills.
3. Recognize entrepreneurial opportunities in LIS.
4. Identify legal and procedural requirements for starting enterprises.
5. Apply best practices in LIS entrepreneurship.

Reference Books

1. Bamford, C. E., & Bruton, G. D. (2018). Entrepreneurship: The art, science, and process for success (3rd ed.). McGraw-Hill Education.
2. Bhatia, R. C. (2020). Entrepreneurship: Business and management. Sultan Chand & Sons.
3. Carpenter, K. (2021). Introduction to entrepreneurship. Kwantlen Polytechnic University. <https://kpu.pressbooks.pub/entrepreneurship/>
4. Hisrich, R. D., Peters, M. P., & Shepherd, D. A. (2020). Entrepreneurship (11th ed.). McGraw- Hill Education.
5. Katz, J. A., & Green, R. P. (2018). Entrepreneurial small business (5th ed.). McGraw-Hill Education.
6. Ware, C. M., Bamford, C. E., & Bruton, G. D. (2014). Business management for the personal fitness trainer. Human Kinetics.

Web Resources

1. <https://www.startupindia.gov.in>
2. <https://www.msme.gov.in>
3. <https://www.ifla.org>
4. <https://www.skillindia.gov.in>
5. <https://www.unesco.org>
6. <https://www.score.org>

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Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	M	M
CO2	S	S	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M	S	M
CO4	S	S	S	S	S	M	M	S	S	S	S	L
CO5	S	S	S	S	S	S	S	S	S	S	S	M

***S-Strong; M-Medium; L-Low**

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26UPLIS1E08: CORPORATE LIBRARIES AND INFORMATION CENTERS

Course Objectives

- To understand the role and functions of corporate libraries.
- To manage corporate information resources and services.
- To apply ICT and analytics in corporate information centers.
- To support corporate research and decision-making.
- To evaluate and market corporate library services.

Unit-1

Introduction- Definition, Need, Nature and Functions of corporate Libraries and Information centres, Learning resources, Types of corporate Libraries and types of users, Objectives and functions of corporate libraries, Role of corporate libraries in knowledge-based organizations, corporate information environment

Unit-II

Organizational structure of corporate Libraries Library policies and procedures, Leadership and professional competencies of corporate Librarians, Outsourcing and consultancy services Collection Development: Objectives and Purpose. Information searching and access, Use of various search techniques and online tools.

Unit-III

Web based Information services, Corporate Librarian 2.0 and social networks- Blogs, Twitters, Facebook, Google buzz etc. for communication. Information analysis and consolidation, Packaging and delivery

Unit-IV

Corporate communications systems and tools-newsletter, Bulletins, preparing for organizing events, Social talks, Conference, News briefs, Press releases, Editing, Reporting. Knowledge management in Corporate Libraries,

UNIT – V

Marketing of corporate library products and services, User studies and user satisfaction assessment, Performance measurement and evaluation techniques, Return on Investment (ROI) of corporate libraries, Ethical and legal issues in corporate information services, Emerging trends: Knowledge management systems, Artificial Intelligence in corporate libraries, corporate knowledge portals.

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Course Outcomes

After completing the course, students will be able to:

- Understand the structure and functions of corporate libraries
- Manage information resources and services in corporate settings
- Apply ICT for corporate information needs
- Support decision-making and research in organizations

Text & Reference Books:

1. Bates, M. E., & Basch, R. (2003). Building and running a successful research business: A guide for the independent information professional. Information Today, Inc.
2. Bopp, R. E., & Smith, L. C. (2011). Reference and information services: An introduction. (4th ed.). Santa Barbara, Calif.: Libraries Unlimited.
3. Greasley, A. et al. (2002). Business information systems: Technology, development and management for the E-Business. Financial Times Management.
4. Gunningham, N. (2009). Corporate environmental responsibility. Farnham, Surrey, England: Ashgate. Hampshire, England: Gower.
5. Lavin, M. R. (2002). Business information: how to find it, how to use it. Phoenix, AZ: Oryx Press.
6. Malone, S. A. (2007). How to Set Up and Manage a Corporate Learning Centre.
7. Matarazzo, J. M. (1999). Knowledge and special libraries. Boston: Butterworth-Heinemann.
8. Mitchell, L. E. (2009). Corporate governance. Farnham, Surrey, England: Ashgate.
9. Moss, R. W. (2003). Strauss's handbook of business information: A guide for librarians, students and researchers. (2nd ed.). Santa Barbara, Calif.: Libraries Unlimited.
10. Taylor, A. & Farrel, S. (1994). Information management for business. London: ASLIB.
11. Thwaite, J. H. (1990). The business information maze: An essential guide. London: ASLIB.
12. Zaqorsky, J. L. (2002). Business information: Finding and using data in the digital age. McGraw-Hill/Irwin.

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Web Resources

1. <https://www.ifla.org>
2. <https://www.sla.org/resources>
3. <https://www.ala.org>
4. <https://www.statista.com>

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	M	M	M	M	M	M	L	L	M	M
CO2	S	S	S	S	S	S	S	S	S	M	M	M
CO3	S	S	S	S	S	S	S	M	M	M	S	M
CO4	S	S	S	S	S	M	M	S	S	S	S	L
CO5	S	S	S	S	S	S	S	S	S	S	S	M

***S-Strong; M-Medium; L-Low**

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26UPLIS1S01: SKILL ENHANCEMENT

Max marks: 75

(3 hours examinations)

Course Objectives

- Focus on equipping learners with practical, industry-relevant abilities, including digital proficiency
- To train on using digital tools, library automation software (e.g., Koha, DSpace), and managing electronic resources.
- To enhance skills in navigating databases, applying advanced search techniques, and utilizing open-access discovery tools.
- Ability to apply theoretical knowledge to practical, work-related scenarios

Unit - I

Communication – Speaking Skills – Presentation Skills and Body Language

Unit – II

Leadership Skills – Motivation, Self-Control, Win-Win Situation

Unit – III

Installation of Software - Supportive Software – Added Services, Platform, Data Mining, Search Techniques

Unit – IV

Communication For Various Services – Functions, Communication for Periodical Subscription, Book Ordering, Reminder, Notification, Circular and Report Preparation.

Unit – V

Digital Literacy, Technical Skills, Researching, and Preparation of PPT

Text Reference

1. Rodriques, M. V. (2013). Effective Business Communication. Concept Publishing Company.
2. Kumar, Sanjai, (2015). Communication Skills, Oxford University Press
3. Mandel, Steve. (2004). Effective Presentation Skills: A Practical guide to better speaking. Crisp Publications.

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Web Reference

1. <https://courses.lumenlearning.com/wm-businesscommunicationmgrs/>
2. <https://www.amazon.in/Effective-Business-Communication-M-Rodrigues/dp/8170224217#:~:text=Book%20details,1%20global%20rating>
3. <https://measiim.edu.in/myweb/uploads/2022/05/PSSEB-SS2-1.pdf>
4. https://www.bharathuniv.ac.in/colleges1/downloads/courseware_ece/notes/BSS201%20-%20PERSONALITY.pdf
5. <https://gppanchkula.ac.in/wp-content/uploads/2020/03/English-Learning-Material.pdf>

Course Outcomes

CO1 -Deliver persuasive, well-structured oral presentations and employ appropriate body language to enhance communication effectiveness.

CO2 - Apply principles of motivation and self-control to cultivate a positive work environment, fostering team collaboration and win-win situations.

CO3 - Install and configure supportive software, and apply data mining techniques to retrieve and analyze information.

CO4 - Draft, format, and deliver professional, service-oriented documents, including circulars, reports, and subscription reminders.

CO5 - Demonstrate competency in digital literacy, conduct targeted research, and prepare effective, visually engaging PowerPoint presentations.

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23UPLIS1X01

EXTENSION ACTIVITY

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NME

26UPLIS1N01: RESEARCH AND PUBLICATION ETHICS

Course objectives:

- To understand the ethical aspects of research
- To become familiar with various publishing tools
- To become familiar with research indexing databases
- To learn about different research metrics

Unit I: Publication Ethics

Definition, scope and importance; Publication best practice / guidelines: COPE, WAME, etc
Conflicts of Interest (CoI), Violation of publication ethics, authorship, and contributorship Report of publication misconduct / appeals Predatory publishers and journals

Unit II Publication Misconduct

Falsification, Fabrication, Manipulation, Redundant publication - Overlapping / Duplicate publication Misinterpretation of data

Unit III: Open Access publication tools

SHERPA/RoMEO online resource to check publisher SHERPA/Juliet online resource for funders' policies on open access Journal finder/journal suggestion tools viz. JANE, Elsevier Journal finder, Springer, Journal Suggester, etc. Journal Suggester Article Processing Charges (APCs) and funding support, Creative Commons licenses (CC-BY, CC-BY-NC, etc.) Institutional repositories and preprint servers

Unit IV: Plagiarism

Use of similarity deduction tools like Turnitin, Urkund, iThenticate and other open-source software tools

Unit V: Database and research metrics

Indexing & Citation database: web of Science, Scopus, PubMed, etc. Journal Metrics: Impact factor of Journal (JCR), SNIP, SJR, ACPP, Cite Score Metrics Author Metrics: h-index, g-index, i-10 index, altmetrics and social media impact

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Texts & Reference Books:

1. Academic Integrity and Research Quality (2021), Secretary, University Grants Commission, New Delhi.
2. Research Evaluation Metrics (2015), the United Nations Educational, Scientific and Cultural Organization, France.
3. Publication Ethics: Integrity in Scientific Research and Publishing, COPE Handbook.
4. Ethics in Research and Publication, K. K. Sharma, PHI Learning.
5. The Handbook of Academic Writing and Publishing, Elsevier.
6. Measuring Research: What Everyone Needs to Know, Cassidy R. Sugimoto & Vincent Larivière, Oxford University Press.
7. Bibliometrics and Citation Analysis, Nicola De Bellis, Scarecrow Press

Web Resources:

1. <https://publicationethics.org/>
2. <https://www.wame.org/>
3. <https://www.openaccess.nl/en>
4. <https://opensource.com/resources/what-open-access>
5. <https://oaspa.org/>
6. <https://www.turnitin.com/>
7. <https://www.urkund.com/>
8. Open Source Software Tools: <https://elearningindustry.com/top-10-freeplagiarism-detection-tools-for-teacher>
9. Grammarly: <https://www.grammarly.com/>
10. FigShare: <https://figshare.com/>
11. Mendeley: https://www.mendeley.com/?interaction_required=true
12. Endnote: <https://endnote.com/>
13. Zotero: <https://www.zotero.org/>
14. Web of Science: <https://mjl.clarivate.com/home>
15. SCOPUS: <https://www.scopus.com/>
16. PubMed: <https://pubmed.ncbi.nlm.nih.gov/>

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17. SHERPA/RoMEO; Online Resources for Publisher Copyright & Self-archiving Policies:

<http://sherpa.ac.uk/romeo/index.php>

18. Software Tool to identify Predatory Publications developed by SPPU:

<https://ugccare.unipune.ac.in/Apps1/User/Web/CloneJournals>

Course Outcome

- Identify and evaluate Violation of publication ethics, authorship, and contributorship Report of publication
- Learn the avoid Overlapping / Duplicate publication Misinterpretation of data
- Manage and provide access to e-resources in libraries
- Use of similarity deduction tools like Turnitin, Urkund

26UPLIS1N02: ELECTRONIC INFORMATION SOURCES

Objectives

- To understand the nature and types of electronic information sources.
- To use electronic reference tools and databases effectively.
- To manage and evaluate electronic resources in Libraries.
- To apply ethical and legal principles in e-resource usage.
- To keep abreast of emerging trends in electronic information services.

Unit – I

Concept, definition, and scope of electronic information sources, Characteristics and advantages of electronic information sources, Types of electronic information sources Role of electronic resources in modern Libraries, Issues and challenges in managing e-resources, Evolution from print to electronic sources.

Unit – II

Electronic Encyclopedias, Dictionaries, Handbooks, Online directories and Yearbooks, Electronic bibliographies and indexes, Abstracting and indexing databases Evaluation of electronic reference sources

Unit – III

Electronic journals: features, access models, licensing, electronic books (e-books): formats, platforms, DRM, Full-text and bibliographic databases, Open access journals and repositories.

Unit – IV

Selection and acquisition of electronic resources, Licensing and copyright issues, Access tools: Web OPAC, discovery services, remote access, Usage statistics and evaluation (COUNTER, SUSHI), Preservation of electronic information sources.

Unit – V

Open access movement and open educational resources (OER), Institutional repositories and digital libraries, Multimedia and web-based information sources, Artificial intelligence and smart information retrieval, Future trends in electronic publishing and Information delivery, cloud computing concepts functions.

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Course Outcomes

After completing the course, students will be able to:

- Identify and evaluate electronic information sources
- Use electronic reference tools effectively
- Manage and provide access to e-resources in libraries
- Support users in digital and electronic information environments

Text Reference

1. Bopp, R. E., & Smith, L. C. (2011). Reference and information services: An introduction (4th ed.). Libraries Unlimited.
2. Chatterjee, A. (2020). Information technology for library and information science. World Press.
3. Govinda Rajan, K., & Bhaskar, R. (2018). Electronic information sources and services. Ess Ess Publications.
4. Kaushik, A. (2016). Managing electronic resources in libraries. Shree Publishers.
5. Minčić-Obradović, K. (Ed.). (2011). E-books in academic libraries: Challenges for public services and technical services. Chandos Publishing.
6. Ramaiah, C. K., & Mahankali, R. (2017). Electronic resources management in libraries. Bharti Publications.
7. Satija, M. P., & Chauhan, P. (2014). Internet and information technology: Issues and challenges in the digital era. Chandos Publishing.
8. Sharma, R. C. (2015). Fundamentals of information technology. Surjeet Publications.
9. Stachokas, G. (2003). Electronic resources librarianship and management of digital information: Emerging professional roles. Routledge.
10. Wilson, A., & Evans, D. (2010). Guide to reference sources. Libraries Unlimited.

Web resources

1. <https://www.britannica.com>, <https://shodhganga.inflibnet.ac.in>,
2. <https://www.jstor.org>,
3. <https://www.sciencedirect.com>,
4. <https://www.doaj.org>,

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26UPLIS1N03: INFORMATION LITERACY

Course Objectives

- Define Information Literacy (IL) and understand its foundational concepts and scope in the context of LIS.
- Analyze the role of IL in fostering lifelong learning, critical thinking, and informed citizenship.
- Evaluate various information literacy models for application in diverse contexts.
- Analyze the impact of AI and Machine Learning on information retrieval and the accuracy of information.
- Utilize the Library catalogs (OPACs) and Integrated Library Systems (ILS) for accessing information.

Unit I:

Foundations of Information Literacy, Definition and Scope of Information Literacy, The Role of Information Literacy in LIS, Model of Information Literacy, The Information Literacy Framework (ALA, SCONUL, UNESCO).

Unit II:

Evolution of Information Literacy in the Digital Age, Information Ethics and Intellectual Freedom Library Catalogs, OPACs, and Integrated Library Systems (ILS), Search Strategies: Boolean Operators, Truncation, and Filters.

Unit III:

Modules of Information Literacy, Models of Information Literacy, Media Literacy, Computer Literacy and Digital Literacy, Information Literacy Products: Library Brochure, Web based Access Instruction

Unit IV:

Copyright, Fair Use, and Open Access, Plagiarism and Academic Integrity, Privacy, Data Security, and Intellectual Property Rights, Citation and Referencing (APA, MLA, Chicago, etc.)

Unit V:

Emerging Trends in Information Literacy, Role of AI and Machine Learning in Information Retrieval, Digital Literacy vs. Information Literacy, social media and its Impact on Information Consumption, Information Literacy and Lifelong Learning, Future Directions in Information Literacy Research, Role of Librarians in Information Literacy Instruction

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Course Outcomes:

By the end of the course, students will be able to:

1. Explain the importance of information literacy in LIS.
2. Develop effective search strategies for retrieving academic information.
3. Critically evaluate the credibility and reliability of information sources

Text References:

1. American Library Association (ALA). (2016). Framework for Information Literacy for Higher Education.
2. UNESCO. (2008). Understanding Information Literacy: A Primer.
3. Bruce, C. (1997). The Seven Faces of Information Literacy.
4. UNESCO. (2021). Media and Information Literacy: Curriculum for Teachers.
5. Zickuhr, K., Rainie, L., & Purcell, K. (2013). Library Services in the Digital Age.
6. Lessig, L. (2004). Free Culture: How Big Media Uses Technology and the Law to Lock Down Culture and Control Creativity.
7. Metzger, M. J., & Flanagin, A. J. (2015). Credibility and Trust of Information in Digital Environments.
8. Badke, W. (2017). Research Strategies: Finding Your Way Through the Information Fog (6th ed.).
9. Michael C. Alewine and Mark Canada (2017), Introduction to information literacy for students

VALUE ADDED COURSE

26UPLIS1VAC1: DIGITAL INFORMATION LITERACY

Objectives

- Understand the concept, need, and scope of Digital Information Literacy (DIL).
- Identify, access, and evaluate digital information sources.
- Apply search strategies and digital tools for academic and professional research.
- Demonstrate skills in information organization, retrieval, and dissemination.
- Promote ethical, legal, and socially responsible use of digital information.
- Integrate digital literacy skills for lifelong learning and digital citizenship.

Unit – I

Meaning and definitions, Need and importance in the digital age, Components of digital literacy, Digital literacy & information literacy: relationship.

Unit – II

Types of digital information sources, Search engines, portals, and directories, Digital libraries & institutional repositories, E-resources, e-journals, e-books

Unit – III

Search techniques: Boolean, filters, operators, Use of Google, Google Scholar, subject gateways, Database searching (e.g., Scopus, Web of Science), Multimedia information retrieval and other online tools.

Unit – IV

Criteria for evaluating digital information, Digital Rights, Copyright and Licensing, Plagiarism and academic integrity, Privacy, security, and digital safety.

Unit – V

Social media for information sharing, Reference management tools (Zotero, Mendeley)
Collaborative tools (Google Docs, wikis), Emerging trends: AI, data literacy, MOOCs.

Reference Books

1. Bawden, D., & Robinson, L. (2012). Introduction to information science (3rd ed.). Facet Publishing.

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2. Bhatt, R. M., & Chunawalla, S. A. (2015). Information sources and services (4th ed.). Ess Ess Publications.
3. Fidel, R. (2012). Human information interaction: An ecological approach to information behavior and retrieval. MIT Press.
4. Kurbanoglu, S., Boustany, J., & Grassian, E. (2017). Global perspectives on digital literacies: Policy and practices. Elsevier.
5. Spink, A., & Cole, C. (Eds.). (2006). New directions in human information behavior. Springer.
6. U.K. National Information Literacy Framework. (2018). UNESCO. (if published as book or report)

Web Resources

1. <https://unesdoc.unesco.org/ark:/48223/pf0000370935>
2. https://en.wikipedia.org/wiki/Digital_literacy
3. <https://ndl.iitkgp.ac.in>
4. <https://www.doaj.org>
5. <https://www.doabooks.org>
6. <https://core.ac.uk>
7. <https://pubmed.ncbi.nlm.nih.gov>
8. <https://creativecommons.org/licenses/>
9. <https://www.zotero.org/>
10. <https://www.mendeley.com/>
11. https://scholar.google.com/citations?view_op=top_venues

COURSE OUTCOMES

After completing this course, students will:

1. Gain proficiency in searching and retrieving relevant digital information.
2. Evaluate digital contents for credibility, relevance, and authority.
3. Apply advanced search techniques using search engines and databases.
4. Demonstrate ethical behavior in the use of digital information.
5. Use digital tools for information organization, communication, and collaboration

26UPLIS1VAC2: WEB TECHNOLOGIES IN LIBRARIES

Course Objectives

- To introduce the concepts and components of web technologies used in Library and Information Systems.
- To familiarize students with web standards, tools, and scripting languages relevant to Libraries.
- To develop skills for designing and managing Library websites and portals.
- To understand the application of Web 2.0 and social media tools in Library services.
- To enable students to apply emerging web technologies for Digital Libraries and information services.

Unit – I

Web browsers and web servers, Web architecture: client–server model, Role of web technologies in Libraries.

Unit – II

Functions and Features of HTML, CSS, XML and JSON, Metadata standards for the web, Accessibility and usability standards

Unit – III

Introduction to databases and web forms, Web hosting and content management systems (CMS), Open-source tools for Library websites

Unit – IV

Concept and features of Web 2.0, Blogs, wikis, RSS feeds, social networking tools for Libraries, User-generated content and collaboration, Library portals and discovery services.

Unit – V

Web 3.0 and semantic web, Linked data and libraries, Mobile web and responsive Future trends in web-based Library services.

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Reference Books

1. Deitel, P., Deitel, H., & Deitel, A. (2012). Internet and World Wide Web: How to program (5th ed.). Pearson Education.
2. Ismail, M. (2018). Web technologies for library and information professionals. Ess Ess Publications.
3. McFedries, P. (2015). Web programming: A beginner's guide. McGraw-Hill Education.
4. Murugesan, S., & Deshpande, Y. (2013). Web engineering: Principles and practice. Wiley.
5. Sharma, R. C. (2015). Information technology for libraries. Ess Ess Publications.
6. W3C. (2018). Web standards and guidelines. World Wide Web Consortium.

Web Resources

1. <https://www.w3.org>
2. <https://www.ifla.org>
3. <https://www.ala.org>
4. <https://wordpress.org>
5. <https://www.drupal.org>
6. <https://omeka.org>
7. <https://www.w3.org/standards/semanticweb>
8. <https://schema.org>

Course Outcomes

After completing the course, students will be able to:

1. Explain the fundamentals of web architecture and technologies.
2. Design and evaluate Library websites and web-based services.
3. Apply Web 2.0 tools for user engagement and information dissemination.
4. Manage web content, digital resources, and online Library services.
5. Adapt emerging web technologies for innovative Library application

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26UPLIS1VAC3: OPEN KNOWLEDGE SYSTEM

Course Objectives

- To provide concepts, features, scopes, and advantages of open educational resources
- To introduce open access sources, policies, and licensing
- To train on the exploration and use of open resources: courseware, full-text journals database, ETDs, Patterns, standards, and multimedia resources
- To explore the use of open content in education, research, and their integration with library systems.

Unit – I

Open Knowledge: Concept, Definition, History; Scholarly communication process; Intellectual Property rights, Copy right, Open Access (OA): Definition, Movement; OA Declarations: Global and National; Open Library Systems; Green, Gold and White Open Access.

Unit –II

OA directories & Registries: DOAJ, DOAB, OATD, Project Gutenberg, PLoS, BASE, CORE, SSRN, ARXIV.ORG; Open Educational Resources (OER): Definition, Need, Scope, Purpose. International Initiatives of OER - UNESCO, Massachusetts Institute of Technology's OCW, Multimedia Educational Resources for Learning and Online Teaching (MERLOT), Macquarie E-Learning Centre of Excellence (MELCOE), Australia, Open Courseware Consortium, Tufts University, Tufts Open Course Ware (OCW), AgEcon.

Unit – III

Indian Initiatives - Consortium for Educational Communication (CEC) - National Programme on Technology Enhanced Learning (NPTEL), IGNOU eGyankosh, .e -PG Patshala, Ekalavya, Creation of e-contents on Fermentation Technology, National Institute of Open Schooling (NIOS), Sakshat Portal, E – Pustakalaya, SWAYAM, SWAYAM Prabha, Free and Open Source Software for Education (FOSSEE), E-Yantra, NDLI.

Unit – IV

OA Policy frame works SHERPA/RoMEO, SHERPA/JULIET, SPARC, Open DOAR, National Repository of Open Educational Resources (NROER).

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Unit – V

Information Searching and Retrieval Techniques: Role of Search Engines, Searching Techniques: Simple Search, Advanced Search, Boolean Search, Truncated Search, Wildcard Search, and Federated Search

Text & Reference Books:

1. A Basic Guide to Open Educational Resources by UNESCO
2. Understanding OER by Commonwealth Learning
3. Giving Knowledge for Free the emergence of open educational resources by OECD

Web Resources:

1. <http://www.cec.nic.in/>
2. <http://www.elearningmicrobiology.com/>
3. <http://www.egyankosh.ac.in/>
4. <http://www.ekalavya.it.iitb.ac.in>
5. <http://www.epgp.inflibnet.ac.in/> IGNOU Online
6. <http://www.onlineadmission.ignou.ac.in/>
7. <http://www.oer.nios.ac.in/wiki/index.php/Main.page>
8. <http://www.nptel.ac.in>
9. <http://uksg.metapress.com/media/d86tgdpafp4yvl806yww/contributions/y/b/j/r/ybjrxgwpp57hvllf.pdf>
10. <http://www.col.org/programmes/technology-enabled-learning>
11. <http://ocw.tufts.edu>
12. <http://www.sherpa.ac.uk>
13. <https://sparcopen.org/>
14. <https://www.oercommons.org/>
15. <https://www.merlot.org/merlot/index.htm>
16. <https://doaj.org/>
17. <http://www.oajse.com/>
18. <http://www.ias.ac.in/>
19. <http://nopr.niscair.res.in/>

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Course Outcomes

On successful completion of the course, students will

CO1	To develop skills in Open Educational Resources	K1	LO
CO2	To acquire various Open Educational Resources in different disciplines.	K2	LO
CO3	Acquired knowledge of open access policy and its impact on the academic community.	K3	LO
CO4	Attained the capabilities of exploring international and national scholarly open access databases.	K4	HO
CO5	Acquired knowledge about information literacy of scholarly open access Information systems at national and international.	K5	HO

K1- Remember, K2- Understand, K3- Apply, K4- Analyze, K5- Evaluate, K6- Create

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S	S	S	L	S	M	S	S	-	-	M
CO2	S	S	M	M	M	M	S	M	M	-	-	M
CO3	M	S	L	S	M	S	M	L	M	-	-	L
CO4	L	S	L	S	M	S	S	M	S	M	-	L
CO5	S	S	M	M	S	M	S	M	S	L	-	S

* S- Strong; M-Medium; L-Low

26UPLIS1VAC4: ARTIFICIAL INTELLIGENCE IN LIBRARIES

Course Objectives

- To equipping library professionals with foundational knowledge, practical skills, and ethical awareness to leverage AI tools effectively in library operations and services.
- To explore AI applications in library operation such as cataloguing, classification, information retrieval, and user services.
- Familiarize students with AI tools and technologies used in libraries, including machine learning, natural language processing, expert systems, and chatbots.
- To develop plans for AI literacy training, policy governance, and future-proofing library services, incorporating best practices for innovation and professional development.
- To address ethical, legal, and social issues related to the use of AI in libraries, including privacy, bias, transparency, and data security.

Unit 1:

History of Artificial Intelligence, Definition, Types, Components, and Key Principles of Artificial Intelligence, Emerging Technologies: Artificial Intelligence (AI), Block chain, Virtual Reality (VR) and Augmented Reality (AR) etc

Unit 2:

Application areas of AI, AI Applications in Library Functions: Library Automation, Resource Discovery, Recommendation Systems, Reference Services, User Services and personalization, and other AI-Powered Virtual Assistants and Services.

Unit 3:

Implementation of AI tools: Metadata Curation, Data and Text Mining, Natural Language Processing, Face Recognition, Knowledge Mapping, and Machine Learning. Intelligent Agents, Intelligent Interfaces.

Unit 4:

Emerging AI tools for Academic Writing, Research and Library, Hands-on-Session on AI Integration of Infobots and Chatbots.

Unit 5:

Ethical Considerations in AI for Libraries: Ethics in AI Practices, Future Trends in AI for Libraries. Showcasing innovative projects and initiatives, Future Trends in AI for Libraries.

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

Text & Reference Books:

1. Balas, V. E., Kumar, R., & Srivastava, R. (Eds.). (2020). Recent trends and advances in artificial intelligence and Internet of Things. Springer. ISBN: 978-3030326432.
2. Ekoja, I., Ogbomo, E., & Okuonghae, O. (Eds.). (2022). Handbook of research on emerging trends and technologies in librarianship. IGI Global: Information Science Reference. ISBN: 978-1799890966.
3. Griffey, J. (2019). Artificial intelligence and machine learning in libraries. ALA TechSource. ISBN: 978-0838918142.
4. Hervieux, S., & Wheatley, A. (Eds.). (2022). The rise of AI: Implications and applications of artificial intelligence in academic libraries. Association of College and Research Libraries. ISBN: 978-0838939116
5. Hook, D. W. (2022). Artificial intelligence in libraries and publishing. ATG LLC (Media). ISBN: 978-1941269558.
6. Ismail, M. (2022). Artificial intelligence in libraries and publishing (R. Pickering, Ed.). Against The Grain.
7. Singh, M. P. (2022). Artificial intelligence in libraries. Oxford Publishers & Distributors. ISBN: 978-9393631114.
8. Stahl, B. C., Schroder, D., & Rodrigues, R. (2023). Ethics of artificial intelligence: Case studies and options for addressing ethical challenges. Springer. ISBN: 978-3031170409.

Course Outcomes

After completing the course, students will be able to:

1. Explain the Emerging Technologies in Artificial Intelligence.
2. Design the AI Applications in Library Functions and Library Automation.
3. Apply Natural Language Processing, Face Recognition, Knowledge Mapping, and Machine Learning.
4. Manage the Emerging AI tools for Academic Writing, Research and Library.
5. Adapt Ethics in AI Practices, Future Trends in AI for Libraries.

M. Lib. I. Sc Syllabus under CBCS Pattern effect from 2026 onwards
Periyar University, Salem

26UPLIS1VAC5: SCHOLARLY COMMUNICATION AND PUBLISHING SKILLS

Course Objectives

1. To introduce students to the assert concept and structure, and evolution of scholarly communication.
2. To understanding of the scholarly publishing ecosystem, such as journals, books, repositories, and conferences.
3. To familiarize students with research writing, citation practices, and ethical publishing.
4. To impart knowledge of open access, copyright, licensing, and research visibility.
5. To equip students with practical publishing skills and the ability to support researchers in scholarly communication.

Unit – I

Meaning and definition of scholarly communication, Evolution of scholarly publishing, Historical perspective of scholarly communication systems, Role of Libraries in scholarly communication, Stakeholders: authors, publishers, Libraries, funding agencies.

Unit – II

Scholarly journals: structure and types, Peer review process and editorial workflows, Commercial vs non-commercial publishing, Open Access models: Gold, Green, Hybrid, Diamond, Predatory journals and publishers.

Unit – III

Structure of scholarly articles and theses, Citation styles: APA, MLA, Chicago, Reference management tools (Zotero, Mendeley), Plagiarism, self-plagiarism, and academic integrity, Use of plagiarism detection tools.

Unit – IV

Copyright in scholarly publishing, Author rights and publisher agreements, Creative Commons licenses, institutional repositories and self-archiving, Open data, open peer review, and open science

Unit – V

Research dissemination strategies, Citation databases and indexing services, Bibliometrics, altmetric, and research impact, ORCID, researcher profiles, and academic networking, Role of libraries

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Periyar University, Salem

Reference Books

1. Andersen, D. L. (2004). Digital scholarship in the tenure, promotion, and review process. Armonk,
2. N.Y.: M.E. Sharpe.
3. Borgman, C. L. (2007). Scholarship in the digital age: Information, infrastructure, and the Internet. MIT Press.
4. Nisonger, T. E. (2007). Journals in the core collection: Definition, identification, and applications. The Serials Librarian, 51(3-4), 51-73.
5. Fyfe, A., Coate, K., Curry, S., Lawson, S., Moxham, N., & Rostan, J. (2017). Untangling academic publishing: A history of the relationship between commercial interests, academic prestige and the circulation of research. Zenodo.
6. Suber, P. (2012). Open access. MIT Press.
7. Swan, A. (2012). Policy guidelines for the development and promotion of open access. UNESCO.

Web Resources

1. <https://sparcopen.org>
2. <https://researcheracademy.elsevier.com>
3. <https://authorservices.wiley.com>
4. <https://www.doaj.org>
5. <https://v2.sherpa.ac.uk/romeo/>
6. <https://creativecommons.org>

Course Outcomes

After completing the course, students will be able to:

1. Explain the process and models of scholarly communication.
2. Identify and evaluate scholarly publishing platforms and journals.
3. Apply appropriate citation styles and reference management tools.
4. Understand open access publishing, copyright, and licensing.
5. Support researchers in research dissemination, impact measurement, and publishing ethics.