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(Accredited by NAAC)

GU/Acad –PG/BoS -NEP/2025-26/345 Date: 18.08.2025

CIRCULAR

Ref: GU/Acad –PG/BoS -NEP/2025-26/204 dated 30.06.2025

In supersession to the above referred Circular, the updated syllabus of **Master of Library and Information Science (M.L.I.Sc.)** Programme is attached with following changes:

- Title of the Course LIS-5203 shall be "Library System and Study Tour" instead of "Academic Libraries System" in the Programme Structure.

The Dean & Vice-Dean (Academic) of the Goa Business School are requested to take note of the above and bring the contents of the Circular to the notice of all concerned.

ASHWIN VYAS LAWANDE
Digitally signed by ASHWIN VYAS LAWANDE
Date: 2025.08.18 17:45:06 +05'30'

(Ashwin V. Lawande)
Deputy Registrar – Academic

To,
1. The Dean, Goa Business School**,** Goa University.
2. The Vice-Dean (Academic), Goa Business School**,** Goa University.
3. The Principal of Affiliated College offering the Master of Library and Information Science (M.L.I.Sc.) Programme.

Copy to:
1. Chairperson, BoS in Library and Information Science, Goa University.
2. Programme Director, M.L.I.Sc., Goa University.
3. Controller of Examinations, Goa University.
4. Assistant Registrar Examinations (PG), Goa University.
5. Director, Directorate of Internal Quality Assurance, Goa University for uploading the Syllabus on the University website.

GOA UNIVERSITY

MASTER OF LIBRARY AND INFORMATION SCIENCE (MLISC)

(Effective from the Academic Year 2025-26)

ABOUT THE PROGRAMME

The **Master of Library and Information Science (MLISc)** is a **postgraduate degree** programme to prepare students for leadership roles in libraries, information centres, archives, and digital environments. The programme is built upon the foundations of library science. It emphasises traditional library science principles, modern information management practices, technology integration, and research skills, enabling graduates to manage, organize, and disseminate information effectively in a dynamic and digital world.

Eligibility: Bachelor's Degree in any discipline

Duration: 2 Years

OBJECTIVES OF THE PROGRAMME

1. To prepare professionals who can effectively manage, organise, and disseminate information in various settings such as libraries, archives, information centres, and digital environments.
2. To provide theoretical knowledge and practical skills in librarianship, information science, and knowledge management.
3. To train professionals in organizing, accessing, and preserving information in various formats.
4. To integrate information and communication technologies (ICTs) into library operations and services.
5. To promote research, innovation, and lifelong learning in LIS.

Approved by: Academic Council on 13th & 14th June 2025

PROGRAMME SPECIFIC OUTCOMES (PSO)	
PSO 1.	Develop a comprehensive understanding of library and information science theories and practices.
PSO 2.	Cultivate professional values, ethical standards, and a commitment to excellence for effective service in libraries and information centers.
PSO 3.	Demonstrate proficiency in organizing, managing, and retrieving information using appropriate library systems and standards
PSO 4.	Apply advanced information technologies and digital tools to enhance library operations and services.
PSO 5.	Conduct research utilizing appropriate methodologies to contribute to the field of library and information science.
PSO 6.	Design and implement user-centric information services that meet the diverse needs of communities.
PSO 7.	Manage library resources effectively, including collection development, budgeting, and human resource management.
PSO 8.	Engage in continuous learning and professional development.

PROGRAMME STRUCTURE

Master of Library and Information Science (M.L.I.Sc.)

Effective from Academic Year 2025-2026

SEMESTER I				
Discipline Specific Core (DSC) Courses (16 credits)				
Sr. No.	**Course Code**	**Title of the Course**	**Credits**	**Level**
1	LIS-5000	Library and Society	4	400
2	LIS-5001	Library Classification Theory and Practice	4	400
3	LIS-5002	Management of Library and Information Centres	4	400
4	LIS-5003	Reference and Information Sources	4	400
Total Credits for DSC Courses in Semester I			**16**	
Discipline Specific Elective (DSE) Course (4 credits)				
Sr. No.	**Course Code**	**Title of the Course**	**Credits**	**Level**
1	LIS-5201	Information and Communication Technology (ICT) (Theory & Practice)	4	400
2	LIS-5202	Preservation and Digitization	4	400
Total Credits for DSE Courses in Semester I			**4**	
Total Credits in Semester I			**20**	

SEMESTER II				
Discipline Specific Core (DSC) Courses				
Sr. No.	**Course Code**	**Title of the Course**	**Credits**	**Level**
1	LIS-5004	Information Services and Systems	4	500
2	LIS-5005	Library Cataloguing: Theory and Practice	4	500
3	LIS-5006	Library Automation, Databases and Networking	4	500
4	LIS-5007	Information Retrieval	4	500
Total Credits for DSC Courses in Semester II			**16**	
Discipline Specific Elective (DSE) Courses (4 credits)				
Sr. No.	**Course Code**	**Title of the Course**	**Credits**	**Level**
1	LIS-5203	Library System and Study Tour	4	400
2	LIS-5204	Marketing of Library Information Products and Services	4	400
Total Credits for DSE Courses in Semester II			**4**	
	Total Credits in Semester II		**20**	

Blooms Taxonomy Cognitive Levels	
Cognitive Level	**Notations**
K1	Remembering
K2	Understanding
K3	Applying
K4	Analyzing
K5	Evaluating
K6	Create

SEMESTER I

Discipline Specific Core Courses

Title of the Course	LIS-5000
Course Code	Library and Society
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil
Course Objectives:	1. To introduce students to the concept, evolution, and philosophy of libraries and their significance in the development of human society. 2. To examine the roles and responsibilities of different types of libraries. 3. To understand the influence of information policies, laws. 4. To familiarize students with the functions of national and international library associations and their impact on the global LIS profession.

Course Outcomes:	By the end of the course, students will be able to:		**Mapped to PSO**	
	CO 1. Explain the origin, evolution, and philosophical foundations of libraries and evaluate their role in the social, educational, and cultural development of society.		PSO1, PSO2, PSO6, PSO8	
	CO 2. Differentiate between various types of libraries		PSO1, PSO2, PSO3, PSO7	
	CO 3. Interpret the key legal frameworks (e.g., RTI Act, Copyright, IPR, 5 laws of library science) affecting libraries and assess their implications for access to information		PSO1, PSO3, PSO6, PSO8	
	CO 4. Describe the structure, goals, and activities of major library associations and examine their role in promoting professional development and global collaboration.		PSO2, PSO5, PSO6, PSO8	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Library and Society:** Evolution of Knowledge Society, Components, Dimensions, and Indicators of Knowledge Society. Knowledge based Institutions: Different kinds; Objectives and functions; Library as a social and knowledge institution. Development of Library Movement in India Individual Contribution of Maharaja Sayajirao Gaekwad III Types of Libraries: Features, Functions, Characteristics, Objectives, and Activities. Public Libraries Services: By age group - Children, Teens and youth, Senior citizens, For rural citizens Academic / Specialists Libraries Information, Information Science, Information as a resource/commodity, Information society, Contributions of Belkin, Robertson, Derwin, Ingwersen, Information Transfer Cycle-Generation, Collection, Storage and Dissemination. Communication Theories and Models. Barriers to communication. Levels of communications – Intrapersonal, Interpersonal and Mass Communication.	**20**	CO1, CO2, CO3	K2, K4, K5
Module 2:	**Laws of Library Science:** Dr. S.R. Ranganathan: His contribution to Library Science, Five Laws of Library Science and their implications. Development of Libraries in India with special	**20**	CO2, CO3, CO4	K2, K3, K4

	reference to Goa Library Legislation: Need, Purpose and Factors, Public Library Acts in Indian States, Detailed study of Goa Public Library Act 1993. Delivery of Books and Newspapers Act; Right to Information Act; IPR, Copyright and Plagiarism, LIS education			
Module 3:	**Library Associations:** Library Profession: Librarianship as a profession, Professional Skills and Competencies, Professional ethics. Library Promoters, Public Relations, and Extension Activities: National level promoters – RRRLF, UGC. International level- UNESCO Library Associations - ILA, IATLIS, IASLIC; International Library Associations – IFLA, FID, ALA, SLA, and LA, ASLIB.	**20**	CO4	K2, K4, K5
Pedagogy:	Lectures & Discussions, Document Analysis, Field Visits			
Texts:	Kumar, P. S. G. (2011). *Foundations of library and information science*. New Delhi: B. R. Publishing Corporation.			
References/ Readings:	1. Bala, H. (2010). *Towards building a knowledge society*. New Delhi: Author Press. 2. Bhatt, R. (1995). *History and development of libraries in India*. New Delhi: Mittal Publications. 3. Buragohain, A. (2000). *Various aspects of librarianship and information science*. New Delhi: Ess Ess Publications. 4. Issac, K. (2004). *Library legislation in India: A critical and comparative study of state acts*. New Delhi: Ess Ess Publications. 5. Kumar, G. (2025). *Library funding models in the 21st century*. London: Society Publishing. 6. Prajapati, R. (2013). *Foundations of library and information science*. New Delhi: Discovery Publishing House. 7. Ranganathan, S. R. (1999). *The five laws of library science*. Bangalore: Sarada Ranganathan Endowment for Library Science. 8. Rout, R. (1986). *Library legislation in India: Problems and prospects*. New Delhi: Reliance Publishing House. 9. Rowley, J., & Hartley, R. (2017). *Organizing knowledge: An introduction to managing access to information*. Abingdon, UK: Routledge. 10. Venktappaiah, V., & Madhusudhan, M. (2006). *Public library legislation in the new millennium*. New Delhi: Bookwell. 11. Webster, F. (2014). *Theories of the information society* (4th ed.). Abingdon, UK: Routledge			

	12. Wiegand, W. A. (1994). *Encyclopedia of library history*. New York: Garland Publishing.
Web Resources:	1. https://www.lisedunetwork.com/what-is-an-information-society 2. https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=9JW4FTxyrU+Wsr8xl8vgiw==

Title of the Course	Library Classification: Theory and Practice
Course Code	LIS-5001
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. To introduce the fundamental principles, theories, and canons of library classification and knowledge organization. 2. To develop an understanding of the structure, features, and application of major classification schemes such as DDC, UDC, and CC. 3. To enable students to construct and assign class numbers to documents using standard classification schemes. 4. To familiarize learners with the concept of notation, call numbers, and the role of facet analysis and enumerative and faceted schemes. 5. To provide practical training in the classification of books and non-book materials, including complex and compound subjects. 6. To build the ability to evaluate, compare, and select appropriate classification systems for different types of libraries and information centres.	
Course Outcomes:	By the end of the course, students will be able to:	**Mapped to PSO**

	CO 1. Recall key concepts, terminology, and components of major library classification systems (e.g., DDC, LCC, CC).		PSO 1	
	CO 2. Explain the theoretical foundations and principles behind knowledge organization and classification schemes		PSO 1, PSO 2	
	CO 3. Apply standard classification rules and notational systems to accurately assign class numbers to library resources.		PSO 3, PSO 4	
	CO 4. Analyse the subject content of documents to identify core concepts for effective classification.		PSO 4	
	CO 5. Compare and critique different classification systems in terms of structure, usability, and relevance in modern libraries.		PSO 5	
	CO 6. Design classification outlines or schedules for specific subjects using principles of faceted or synthetic classification.		PSO 6	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Knowledge Organisation**: Concepts and scope. Classification and Universe of Knowledge. Group and Class. Library Classification- Definitions, purpose and importance. Theory and Development of Library Classification. Species of library classification.	**10**	CO1, CO2	K1
Module 2:	**Notations**: Types and functions. Concept of call number: Class, book, and collection numbers. Modes of formation of subjects.	**10**	CO2	K2
Module 3:	**Major Library Classification Systems**: Structures and features. Colon Classification; Dewey Decimal Classification (DDC); Universal Decimal Classification; Library of Congress Classification; Governance and revision process of classification systems. Current trends in Library Classification: Web Dewey and digital tools	**10**	CO3	K2, K3
Module 4:	4.1 DDC: Main Classes and their sub-divisions, tables, use of notations and hierarchy	**10**	CO3,CO4, CO5	K3. K4, K5

	4.2 DDC: Assigning appropriate numbers based on subject analysis	**10**	CO3,CO4, CO5	K3, K4, K5, K6
	4.3 DDC: Constructing complex classification numbers	**10**	CO5, CO6	K3, K4, K5, K6
Pedagogy:	Theoretical understanding of the library classification system with practical application. It involves exploring different classification schemes, understanding their underlying principles, and applying them to real library materials. Active learning methods like group discussions, case studies, and hands-on practice can help students develop the necessary skills.			
Texts:	Dewey, M. (2011). *Dewey decimal classification and relative index* (23rd ed.). Dublin, OH: OCLC Online Computer Library Center.			
References/ Readings:	1. Ranganathan, S. R. (1967). *Prolegomena to library classification* (3rd ed.). Bangalore: Sarada Ranganathan Endowment for Library Science. 2. Ranganathan, S. R. (1965). *Colon classification* (6th ed.). Bangalore: Sarada Ranganathan Endowment for Library Science. 3. Chan, L. M. (2007). *Library of Congress classification: An introduction to the LCC system*. Englewood, CO: Libraries Unlimited. 4. Mills, J. (1960). *Modern outline of library classification*. London: Chapman & Hall. 5. Kumar, K. (1993). *Theory of classification*. New Delhi: Vikas Publishing House. 6. Kumar, K. (2001). *Practice of classification* (5th ed.). New Delhi: Vikas Publishing House. 7. Satija, M. P. (2007). *A guide to the Universal Decimal Classification (UDC)*. New Delhi: Ess Ess Publications 8. Foskett, D. J. (1996). *The subject approach to information* (5th ed.). London: Library Association Publishing. 9. Krishnamurthy, M., Satija, M. P., & Martínez-Ávila, D. (2023). Classification of classifications: Species of library classifications. *Cataloging & Classification Quarterly, 61*(2), 228–248. https://doi.org/10.1080/01639374.2023.2209068 10. Satija, M. P., & Kyrios, A. (2023). *A handbook of history, theory and practice of the Dewey Decimal Classification system*. Facet Publishing. 11. Batley, S. (2023). *Classification in theory and practice* (2nd ed.). Chandos Publishing.			

	12. Palmer, B. I., & Wells, A. J. (2021). *The fundamentals of library classification*. Routledge.
Web Resources:	https://www.oclc.org/en/dewey.html https://www.loc.gov/catdir/cpso/lcco/

Title of the Course	Management of Library and Information Centres
Course Code	LIS-5002
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. To Understand the fundamental principles, functions, and management theories applied to libraries and information centres. 2. To Explore the organizational structure and various administrative processes within different types of libraries. 3. To Develop skills in managing human and financial resources in library settings, including budgeting, staffing, and performance evaluation. 4. Apply management techniques to core library operations such as collection development, technical services, and user services. 5. To Examine the role of leadership, motivation, and strategic planning in achieving organizational goals. 6. To Assess the use of marketing, quality control, and change management practices to effectively deliver library and information services.	
Course Outcomes:	By the end of the course, students will be able to:	**Mapped to PSO**

	CO 1. Recall basic concepts, principles, and functions of library management and administration.		PSO1, PSO2	
	CO 2. Explain the organizational structure and management theories applicable to libraries and information centres.		PSO2, PSO3	
	CO 3. Demonstrate the application of human resource and financial management techniques in library operations.		PSO4, PSO5	
	CO 4. Analyze various library services and operations to identify efficiency gaps and suggest improvements.		PSO5	
	CO 5. Evaluate leadership styles, budgeting methods, and performance management strategies in different types of libraries.		PSO6	
	CO 6. Design strategic plans, organizational charts, and marketing proposals for effective library management.			
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Principles and Functions of Management:** Concept, definition, and scope of management; Functions of management: Planning, Organising, Staffing, Directing, Controlling; Classical, Human Relations, and Modern theories of management; Organisational structure of libraries; Leadership styles and motivation theories.	**15**	CO1, CO2	K1, K2
Module 2:	**Human Resource and Financial Management**: Human Resource Planning in libraries; Job analysis, recruitment, training, and performance appraisal; Staff development and motivation; Budgeting techniques: PPBS, Zero-Based Budgeting (ZBB), Line-item budgeting; Financial control, audits, and grant writing in libraries	**15**	CO2, CO3, CO4, CO5, CO6	K3, K4, K5, K6
Module 3:	**Management of Library Operations and Services (House Keeping Operations)**: Collection development and management; Technical services (acquisition, classification, cataloguing); Circulation and user services; Use of	**15**	CO2, CO3, CO4,	K3, K4, K5, K6

	ICT in library operations; Quality assurance and performance evaluation (e.g., ISO standards, benchmarking)		CO5, CO6	
Module 4:	**Marketing and Change Management**: Marketing of library services: 4 Ps (Product, Price, Place, Promotion); Customer relationship management (CRM); Change management and innovation in libraries; Library planning, decision-making, and strategic planning; Case studies on successful library management practices.	**15**	CO2, CO3, CO4, CO5, CO6	K3, K4, K5, K6
Pedagogy:	The course will follow a learner-centric, participative approach**.** Theoretical understanding of the library classification system with practical application. It involves exploring different classification schemes, understanding their underlying principles, and applying them to real library materials. Active learning methods involve lectures, group discussions, case studies, and practical exercises in budgeting and planning. This pedagogy encourages critical thinking and problem-solving**,** and prepares students for real-world library management challenges.			
Texts:	Kumar, K. (2017). *Library administration and management* (5th ed.). New Delhi: Vikas Publishing House.			
References/ Readings:	1. **Evans, G. E., & Alire, C. A. (2013).** *Management basics for information professionals* (3rd ed.). Chicago, IL: American Library Association. 2. **Hernon, P., & Matthews, J. R. (2013).** *Reflecting on the future of academic and public libraries*. Chicago, IL: American Library Association. 3. **Johnson, P. (2018).** *Fundamentals of collection development and management* (4th ed.). Chicago, IL: American Library Association. 4. **Koontz, H., & Weihrich, H. (2015).** *Essentials of management: An international, innovation and leadership perspective* (10th ed.). New York, NY: McGraw-Hill Education. 5. **Matthews, J. R. (2005).** *Strategic planning and management for library managers*. Westport, CT: Libraries Unlimited. 6. **Mittal, R. L. (2007).** *Library administration: Theory and practice*. New Delhi: Ess Ess Publications. 7. **Nijaguna, & Pramod. (2023).** *Modern library management: A comprehensive guide to effective information centers and services*. Bhubaneswar: Walnut Publication. 8. **Ranganathan, S. R. (1989).** *Library administration* (2nd ed.). Bangalore: Sarada Ranganathan Endowment for Library Science. 9. **Roberts, S. A. (2004).** *Library management: A handbook of principles and practice*. Oxford, UK: Chandos Publishing.			

	10. **Rowley, J., & Hartley, R. (2008).** *Organizing knowledge: An introduction to managing access to information* (4th ed.). Aldershot, UK: Ashgate Publishing. 11. **Rubin, R. E. (2020).** *Foundations of library and information science* (4th ed.). Chicago, IL: ALA Neal-Schuman. 12. **Sinha, S. C., & Dhiman, A. K. (2002).** *Academic library management*. New Delhi: Ess Ess Publications. 13. **Stueart, R. D., & Moran, B. B. (2007).** *Library and information center management* (7th ed.). Westport, CT: Libraries Unlimited. 14. **Webb, W. (2023).** *Strategic library management: Leading, innovating, and succeeding in public libraries*. New York, NY: Library Professional Development.
Web Resources:	1. https://www.ifla.org/units/management-and-marketing/ 2. https://www.ala.org/llama/

Title of the Course	Reference and Information Sources
Course Code	LIS-5003
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. To identify the different types of information sources available in the library 2. To understand the characteristics of each of the sources of information. 3. To analyse how each of the sources can be used to satisfy the various types of information needs of the users. 4. To impart skills to critically examine and evaluate the various types of print and e-resources before acquiring them in the library.	
Course Outcomes:		**Mapped to PSO**
	CO 1. Identify and classify various types of reference and information sources based on their characteristics and uses.	PSO1
	CO 2. Understand how to use the sources to satisfy the varied information needs of the users.	PSO 1
	CO 3. Evaluate the reliability and relevance of different reference sources to meet users'	PSO4, PSO7

	information needs			
	CO 4. Demonstrate effective search strategies to retrieve accurate and timely information from various reference sources.		PSO3, PSO4, PSO6	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Information Sources**: Information sources**:** Meaning, Definition, Nature, Evolution, Characteristics, Functions, Importance. Types of sources and Criteria for evaluation	**10**	CO1, CO2, CO3	K1, K2, K5
Module 2:	**Documentary sources** (Print and Digital): Primary Sources: Journals and Newspapers; Patents; Technical Reports, Standards and Specifications; Conference proceedings; Trade literature; Theses and Dissertations. Secondary Sources: Dictionaries, Encyclopaedias, Yearbooks and Almanacs, Biographical sources, Geographical sources, Bibliographical sources, Abstracting and Indexing periodicals, Handbooks and Manuals, Statistical information sources and Databases. Tertiary Sources: Monographs, Textbooks, Directories, Guides to reference sources, Bibliography of bibliographies, Union Catalogues, etc.	**10**	CO2	K2, K3
Module 3:	**Non-Documentary Sources:** Human Sources: Technological gatekeepers, Invisible colleges, Information consultants, Experts/ Resource persons, Representatives of firms, Personal home pages, Common men (Priest, Village head, Postman, Receptionist, etc.) and others. Institutional/Organizational Sources: Government, Ministries and Departments, R&D organizations, Learned societies, Publishing houses, Press, Broadcasting stations, Museums, Archives, Data banks, Information Analysis Centers, Referral Centers, Exhibitions & Trade fairs, Institutional Websites, Meta resources (Subject gateways, virtual libraries, digital libraries, institutional repositories etc.)	**10**	CO2	K2, K3

Module 4:	4.1. Study and evaluation of documentary sources Study and evaluation of documentary sources. Evaluation of print and E-sources.	**10**	CO4	K4, K5
	4.2. Searching information from print sources based on user queries	**10**	CO4	K4, K5
	4.3. Study of the features and functionality of print and electronic resources (e.g. Dictionaries, Encyclopaedias, Abstract Databases, Federated search engines, Full Text Databases, Citation Databases, Directories, Repositories, etc.)	**10**	CO2	K2, K4
Pedagogy:	Lecture method / assignments / self-study / practical learning / blended learning			
Texts:	Kumar, K. (2003). *Reference service*. New Delhi: Vikas Publishing House**.**			
References/ Readings:	1. Alan, P., Gwyneth, T., & Goff, S. (1999). *Library and information professional's guide to the World Wide Web*. London: Facet Publishing. 2. Cassell, K. A., & Hiremath, U. (2023). *Reference and information services: An introduction* (5th ed.). Chicago, IL: ALA Neal-Schuman. 3. Chowdhury, G. G., & Chowdhury, S. (2001). *Information sources and searching on the World Wide Web*. London: Facet Publishing. 4. Gopinath, M. A. (1984). *Information sources and communication media*. Bangalore: DRTC. 5. Katz, W. A. (2000). *Introduction to reference work* (8th ed.). Boston, MA: Butterworths. 6. Rao, I. K. R. (2001). *Electronic sources of information*. Bangalore: Documentation Research and Training Centre (DRTC). 7. Facet Publishing. (1999). *Searching on the World Wide Web*. London: Facet Publishing. 8. Sewasingh. (2001). *Hand book of international sources on reference and information*. New Delhi: Crest Publications. 9. Sharma, J. K. (2003). *Print media and electronic media: Implications for the future*. New Delhi: Authors Press. 10. Sharma, J. S., & Grover, D. R. (1998). *Reference service and sources of information*. New Delhi: Ess Ess Publications. 11. Walford, A. J. (1990). *Guide to reference materials* (5th ed.). London: Library Association Publishing. 12. Wong, M. A., & Saunders, L. (Eds.). (2024). *Reference and information services: An introduction* (7th ed.). Santa Barbara, CA: Bloomsbury Libraries Unlimited.			
Web Resources:	1. https://ndl.iitkgp.ac.in/			

	2. https://www.rrrlf.gov.in/NML/NVLI.aspx 3. https://www.vlib.org/ 4. https://riemysore.ac.in/index.php/node/643

Discipline Specific Elective Courses

Title of the Course	Information and Communication Technology (ICT) (Theory & Practice)
Course Code	LIS-5201
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. To familiarize the students with the basic structure of Information and Communication Technology. 2. To prepare the students to streamline the library processes using computer technology, and meet the information needs of the users by providing efficient services. 3. To Acquaint the learners with the different Internet search techniques. 4. Providing hands-on experience in the use of different application software, different types of search engines, and databases	
Course Outcomes:	At the end of the course the students will be able to:	**Mapped to PSO**
	CO 1. Demonstrate understanding of the basic structure and components of Information and Communication Technology (ICT).	PSO1, PSO4

	CO 2. Apply computer technology to streamline library operations and provide efficient information services.		PSO3, PSO4, PSO6, PSO7	
	CO 3. Utilize various Internet search techniques to access and retrieve relevant information effectively.		PSO1, PSO3, PSO4	
	CO 4. Gain hands-on experience with application software, search engines, and databases relevant to library operations.		PSO3, PSO4, PSO8	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Information Technology**: Information Technology - Concepts, Definition, Components and Applications, Characteristics, Applications, Generations and Types of Computers. Components of a computer: Central Processing Unit, Input and Output devices, Internal and External storage devices, Computer software: Types and Categories, Programming concepts: System Analysis, Algorithms and Flowcharts, Open source and Proprietary software, System software: Purpose, Operating Systems, Microsoft Windows, UBUNTU, Application software: Office Applications and an overview of Integrated Library Management Systems (ILMS) Software like KOHA, NewGenlib, LibSys, e-Granthalaya etc.	**10**	CO1, CO2	K1, K2, K3
Module 2:	**Networking: Computer network:** Types, and Topologies, Internet: Evolution, Importance and Applications, Network security. Internet browsers, Software suites, Anti-virus programs, Sharewares, Web design tools, HTML Editors. Search Engines, Interactive and Distributive Services. Wireless and Mobile Networks. E-mail and E-Messaging, WWW, Web 2.0 tools, and their application to libraries and information centres.	**10**	CO1, CO2, CO3	K2, K3, K4
Module 3:	**Data Communication and Computer Networks**: Introduction, Need for networking, Objectives, Advantages, Disadvantages. Data Communication – Components, Transmission Mode (Simplex, half duplex, full duplex), Analog and Digital Data Transmission, Data communication measurement (bandwidth). Transmission media (guided, unguided). Protocols and its functions, Communication Protocol (OSI Model). Network devices (NIC, Repeater, Hub, Bridge, Switch,	**10**	CO1, CO2	K2, K3, K4

	Router, Gateway, Modem), File server, Workstation, Wireless networks.			
Module 4: PRACTICAL	4.1. Microsoft Office (Word, Excel, PowerPoint, Publisher) Open Office / LibreOffice / G-Suite	**10**	CO4	K3, K4
	4.2. Search Techniques, Hypertext Markup Language (HTML). Database searching and Internet searching, Search Engines.	**10**	CO3, CO4	K3, K4
	4.3.Google Forms, Google Sites, Google Sheets, Certify'em, Google Slides, Awesome Table	**10**	CO4	K3, K5, K6
Pedagogy:	Lectures, Presentations, Hands on Training, Discussions, Blended Learning			
Texts:	Kumar, A. (Ed.) (2006). Information Technology for all (2 vols.). New Delhi: Anmol.			
References/ Readings:	1. Bachaalany, E., & Koret, J. (2015). *The antivirus hacker's handbook*. Hoboken, NJ: Wiley Publishers. 2. Beighley, L., & Morrison, M. (2008). *Head First: PHP & MySQL*. Sebastopol, CA: O'Reilly Media. Blokdyk, G. (2021). *Information and communication technology: A complete guide – 2020 edition*. Brisbane: Emereo Publishing. 3. Croft, W. B., Metzler, D., & Strohman, T. (2015). *Search engines: Information retrieval in practice*. Boston, MA: Pearson Education. 4. Croucher, P. (1996). *Communications and networks* (2nd ed.). New Delhi: Affiliated East-West Press. 5. Gralla, P., & Troller, M. (2006). *How the Internet works*. Indianapolis, IN: Que Publishers. 6. Kentie, P. (2001). *Web design tools and techniques*. Berkeley, CA: Peachpit Press. 7. Madan, S. (2007). *Information technology* (4th ed.). New Delhi: Taxmann Publications. 8. Manvi, S., & Kakkasageri, M. (2016). *Wireless and mobile networks: Concepts & protocols*. Hoboken, NJ: Wiley. 9. Shrivastava, R. K. (2001). *Textbook of information technology*. New Delhi: Dominant Publishers. 10. Shroff, R. (2000). *Computer systems and applications*. Mumbai: Himalaya Publishing House. 11. Singh, V. P. (2016). *Quintessential course on MS Office 2016: Including Word, Excel, PowerPoint, Access, Outlook and more*. New Delhi: Computer Publications Ltd.			
Web Resources:	1. https://www.semanticscholar.org/ 2. https://www.microsoft.com/en-us/research/project/academic/			

	3. https://scholar.google.com/ 4. https://core.ac.uk/ 5. https://duckduckgo.com/ 6. https://epgp.inflibnet.ac.in/

Title of the Course	Preservation and Digitization in Libraries and Archives
Course Code	LIS-5202
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. To understand the theoretical foundations of preservation and digitisation. 2. To identify and assess risks to physical and digital collections. 3. To develop preservation policies for various types of materials. 4. To Plan and manage digitization projects, including equipment and workflow. 5. To apply metadata and standards (e.g., Dublin Core, METS, PREMIS) in digital collections. 6. To analyse the legal and ethical aspects of digital preservation.	
Course Outcomes:	By the end of the course, students will be able to:	**Mapped to PSO**
	CO 1. Define key concepts and terminology related to preservation and digitization in libraries and archives.	PSO 1
	CO 2. Explain the risks, challenges, and strategies involved in preserving physical and digital materials.	PSO 1, PSO 2

	CO 3. Develop a basic digitization workflow plan for various types of library and archival materials.		PSO 3, PSO 4	
	CO 4. Critically examine preservation policies and practices to identify strengths and gaps.		PSO 4, PO5	
	CO 5. Assess the suitability of digital preservation standards (e.g., OAIS, PREMIS) for different types of collections.		PSO 5	
	CO 6. Design an institutional preservation and digitization policy or project proposal integrating current best practices.		PSO 6	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Introduction to Preservation and Digitization:** History and evolution; Key concepts and terminology; Preservation ethics	**10**	CO1, CO2	K1
Module 2:	**Physical Preservation:** Environmental control; Storage and handling; Conservation techniques	**10**	CO1, CO2	K2, K3
Module 3:	**Digitization Technologies and Workflow:** Scanning techniques; Equipment and software; File formats and quality control	**10**	CO3, CO4	K2, K3
Module 4:	**Metadata and Standards:** Descriptive, structural, and administrative metadata; Dublin Core, METS, MODS, PREMIS; Digital object management	**20**	CO5, CO6	K3, K4, K5, K6
Module 5:	**Digital Preservation Strategies:** OAIS model; Bit-level preservation vs. content preservation; Digital repositories and formats	**10**	CO5, CO6	K3, K4, K5, K6
Pedagogy:	The pedagogy for this course combines interactive lectures, group activities, laboratory experiences, collaborative learning, guest lectures and workshops.			
Texts:	Harvey, R. (2010). *Preserving digital materials* (2nd ed.). Berlin: De Gruyter Saur.			
References/ Readings:	1. Cloonan, M. V. (2015). *Preserving our heritage: Perspectives from antiquity to the digital age*. Chicago, IL: ALA Neal-Schuman. 2. De Stefano, P., & Dahlen, S. P. (Eds.). (2020). *Introduction to digital preservation*. Chicago, IL: ALA Neal-Schuman.			

	3. Kenney, A. R., & Rieger, O. Y. (2000). *Moving theory into practice: Digital imaging for libraries and archives*. Mountain View, CA: Research Libraries Group. 4. Buchanan, S. A. (2019). *Digital curation: A how-to-do-it manual* (2nd ed.). Chicago, IL: ALA Neal-Schuman. 5. Conway, P. (2010). Preservation in the age of Google: Digitization, digital preservation, and dilemmas. *The Library Quarterly*, *80*(1), 61–79. https://doi.org/10.1086/648463 6. Waters, D., & Garrett, J. (1996). *Preserving digital information: Report of the Task Force on Archiving of Digital Information*. Washington, DC: Commission on Preservation and Access. 7. Smith, A. (2007). *Preservation management handbook: A 21st-century guide for libraries, archives, and museums*. Lanham, MD: Rowman & Littlefield. 8. Society of American Archivists. (2013). *Digital archives specialist (DAS) curriculum and certificate program*. Chicago, IL: SAA. 9. Bastian, J. A., & Flinn, A. (Eds.). (2020). *Community archives, community spaces: Heritage, memory, and identity*. London: Facet Publishing. 10. Brown, A. (2006). *Digital preservation: Technology and tools*. London: Facet Publishing. 11. Ross, S. (2012). *Digital preservation, archival science and methodological foundations for digital libraries*. *New Review of Information Networking*, *17*(1), 43–68. https://doi.org/10.1080/13614576.2012.679446 12. National Archives and Records Administration. (2014). *Managing electronic records*. Washington, DC: NARA. 13. Bell, M. (Ed.). (2014). *Handbook for digital projects: A management tool for preservation and access*. Andover, MA: Northeast Document Conservation Center. 14. Menne-Haritz, A. (Ed.). (2001). *Information management and preservation*. München: K. G. Saur.
Web Resources:	https://digitalpreservation.gov/ https://www.nedcc.org/free-resources/preservation-leaflets

SEMESTER II

Discipline Specific Core Courses

Title of the Course	Information Services and Systems
Course Code	LIS-5004
Number of Credits	4
Theory/Practical	Theory
Level	500
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil
Course Objectives:	1. To understand the concept, scope, and significance of information services and systems in the context of libraries and information centers. 2. To identify and evaluate various types of information services, including reference, current awareness, selective dissemination of information (SDI), bibliographic, and document delivery services. 3. To gain knowledge of different types of information systems (e.g., library networks, databases, consortia, and online information systems) and their role in information access and dissemination. 4. To understand the role of ICT (Information and Communication Technology) in the development and delivery of

	modern information services.			
Course Outcomes:	Shall include Cognitive levels as per Bloom's Taxonomy.		**Mapped to PSO**	
	CO 1. Demonstrate a clear understanding of the concept, scope, and importance of information services and systems.		PSO1, PSO2, PSO3	
	CO 2. Classify and critically evaluate various types of information services, including reference, CAS, SDI, etc.		PSO2, PSO3, PSO5, PSO6	
	CO 3. Describe and analyze the structure and functions of different information systems (e.g., networks, consortia).		PSO1, PSO3	
	CO 4. Apply ICT tools to improve the delivery of modern information services.		PSO3, PSO4, PSO6	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	Reference and Information Services, Types and Needs, Trends, Reference Interview, Online reference service, alerting services: Current Awareness Services (CAS): SDI, Indexing and Abstracting Service, Developing FAQs, Document delivery. Virtual Reference Desk (VRD): Management, technology and resources. Readers Advisory Service.	**10**	CO2, CO4	K2, K4, K5
Module 2:	Information Consolidation: Information consolidation and repackaging, Content analysis, Information Policies and Programmes, Planning, Design and Evaluation of Information systems, Translation services. Information systems: Basic concepts, Meaning, Objectives and Functions	**15**	CO1, CO3	K2, K3
Module 3:	Marketing information products: Concepts, Definition, Need & Trends Marketing concepts: Corporate mission; Marketing Strategies. Concept of marketing in Non-profit Organizations, Marketing Mix, Branding and Advertising Marketing Plan & Research, Costing and Pricing of information products and services.	**15**	CO1, CO4	K6
Module 4:	Documentation Centres: Components of Documentation Centres, Data centres, Information analysis centres, Clearing houses, Data banks, Data Curation centres, Museums, Memoirs, Institutional Repositories, Open Archives, Referral, Translation	**10**	CO1, CO3	K4, K5

	Centres, and Publishing Houses. Study of International Documentation Centres, Information Systems and programmes			
Module 5	Library Networks: Historical development of Library Cooperation and Networking, Functions, Activities, Advantages. Resource Sharing and Networks: Consortia-Importance and Objectives. Study of Information networks- OCLC, INFLIBNET, DELNET etc.	**10**	CO3, CO4	K3, K5
Pedagogy:	Lecture, Case studies, Discussions, Mapping activities, Demonstration			
Texts:	Singh, G (2013). Information sources, services and systems. PHI Learning			
References/ Readings:	1. Cassell, K. A., & Hiremath, U. (2023). *Reference and information services: An introduction* (5th ed.). Chicago, IL: ALA Neal-Schuman. 2. Eileen, E. D. S. (2002). *Marketing concepts for libraries and information services* (2nd ed.). London: Facet Publishing. 3. Hirsh, S. G. (2022). *Information services today: An introduction* (2nd ed.). Lanham, MD: Rowman & Littlefield. 4. Jain, A. K. (Ed.). (1995). *Marketing of information products and services*. Ahmedabad: Indian Institute of Management (IIM). 5. Maideen, S. A., Sujatha, C., Maheswar, S., & Kavitha, R. (n.d.). *Information sources, systems and services*. New Delhi: Alpha International Publication. 6. Stair, R., & Reynolds, G. (2021). *Principles of information systems* (14th ed.). Boston, MA: Cengage Learning.			
Web Resources:	https://ebooks.inflibnet.ac.in/lisp4/front-matter/introduction/			

Title of the Course	Library Cataloguing: Theory and Practice
Course Code	LIS-5005
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. To introduce the principles, functions, and objectives of library cataloguing in organizing and retrieving bibliographic information. 2. To familiarise students with the evolution and structure of major cataloguing codes. 3. To enable students to understand and apply cataloguing standards for various library materials. 4. To develop practical skills in creating cataloguing records using manual methods and automated tools, including MARC21 format. 5. To train students in subject cataloguing, using controlled vocabularies such as LCSH and Sears List, and the concept of authority control. 6. To equip students to work with modern library cataloguing systems, including Integrated Library Systems (ILS) and online cataloguing tools in digital and networked environments.	
Course Outcomes:	At the end of the course, students will be able to:	**Mapped to PSO**

	CO 1. Recall fundamental concepts, terminologies, and objectives of library cataloguing and bibliographic control.		PSO1	
	CO 2. Explain the structure and components of cataloguing codes such as **AACR2**, **RDA**, and **ISBD**, and their role in information organization.		PSO1, PSO2	
	CO 3. Construct bibliographic records for books and non-book materials using **AACR2/RDA** and **MARC21** in both manual and automated environments.		PSO3, PSO4, PSO5	
	CO 4. Differentiate between descriptive and subject cataloguing techniques and evaluate their application using tools like **LCSH**, **Sears List**, and **Chain Procedure**.		PSO5	
	CO 5. Assess the effectiveness of cataloguing systems and standards in terms of user accessibility, consistency, and retrieval performance.		PSO5, PSO6	
	CO 6. Design complete and accurate catalogue entries using bibliographic standards and metadata schemas for diverse information resources.		PSO6	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Introduction to cataloguing:** Definition, objectives, and functions of cataloguing; History and development of cataloguing codes; Types of catalogues: Dictionary, Classified, and OPAC; Physical forms of catalogue: Book, Card; Filing rules and authority control.	**5**	CO1, CO2	K1
Module 2:	**Descriptive Cataloguing Standards: AACR2**: Structure, rules, and cataloguing of books and non-book materials; **RDA (Resource Description and Access)**: Principles, structure, and comparison with AACR2; Core elements of description: Title, Author, Edition, Publication, Physical Description, Notes, etc.; Cataloguing of single, multi-volume works, and corporate authors; ISBD (International Standard Bibliographic Description)	**5**	CO2	K2
Module 3:	**Subject Cataloguing:** Importance of subject cataloguing; Principles of assigning subject headings; **Library of Congress Subject Headings (LCSH); Sears List of Subject Headings;** Chain procedure and keyword indexing	**5**	CO3	K2, K3

Module 4:	Cataloguing in Machine-Readable Format and Automation: Introduction to MARC21 format: Fields, tags, indicators, subfields; Metadata standards: Dublin Core, BIBFRAME.	**5**	CO3	K2, K3
Module 5:	5.1 Practical work: Cataloguing of Books and Non-book Materials using AACR2 and RDA	**10**	CO3, CO4, CO5, CO6	K3. K4, K5, K6
	5.2 Practical work: Manual preparation of catalogue entries (Main & Added entries)	**10**	CO3,CO4, CO5, CO6	K3, K4, K5, K6
	5.3 Practical work: Cataloguing using MARC21 format: Fields, tags, indicators, subfields; Use of Koha or similar ILS for cataloguing operations.	**10**	CO5, CO6	K3, K4, K5, K6
Pedagogy:	Theoretical understanding of the library cataloguing system with practical application. It blends theoretical instruction with practical application, fostering critical thinking and problem-solving skills. It involves exploring diverse teaching methods like lectures, discussions, group work, and hands-on practice using real library materials.			
Texts:	AACR2 – Anglo-American Cataloguing Rules**, 2nd ed. (ALA, 2002)**			
References/ Readings:	1. **Baca, M. (Ed.). (2016).** ***Introduction to metadata*** **(3rd ed.).** Los Angeles, CA: Getty Research Institute. 2. **Chan, L. M. (2005).** ***Library of Congress subject headings: Principles and application*** **(4th ed.).** Westport, CT: Libraries Unlimited. 3. **Chan, L. M. (2007).** ***Cataloging and classification: An introduction*** **(3rd ed.).** Lanham, MD: Scarecrow Press. 4. **Chan, L. M., & Hodges, T. (2007).** ***Cataloging and classification: Standards and rules*****.** Lanham, MD: Scarecrow Press. 5. ***(Missing bibliographic details – please provide author, year, and title for the work exploring how RDA interacts with DDC and classification schemes.)*** 6. **Gorman, M., & Winkler, P. W. (2004).** ***Anglo-American cataloguing rules*** **(2nd ed., 2002 rev. update).** Chicago, IL: American Library Association / Ottawa: Canadian Library Association / London: CILIP. 7. **Joint Steering Committee for Development of RDA. (2010).** ***Resource description and access (RDA)*** **(Loose-leaf or online).** Chicago, IL: American Library Association. 8. **Lihitkar, S., & Veeranjaneyulu, K. (2020).** ***Cataloguing: Theory and practice*****.** Hyderabad: BS Publications.			

	9. **Maxwell, R. L. (2013).** ***Maxwell's handbook for RDA: Explaining and illustrating RDA: Resource description and access using MARC21*****.** Chicago, IL: American Library Association. 10. **Mering, M. V. (2014).** ***The RDA workbook: Learning the basics of Resource Description and Access*****.** Santa Barbara, CA: Libraries Unlimited. 11. **Mitchell, J. S., & Tillett, B. (2011).** ***Dewey Decimal Classification and RDA: Interactions and integration*****.** Dublin, OH: OCLC. 12. **Oliver, C. (2010).** ***Introducing RDA: A guide to the basics*****.** Chicago, IL: American Library Association. 13. **Satija, M. P. (2007).** ***The theory and practice of the Dewey Decimal Classification system*****.** Oxford, UK: Chandos Publishing. 14. **Taylor, A. G., & Joudrey, D. N. (2009).** ***The organization of information*** **(3rd ed.).** Santa Barbara, CA: Libraries Unlimited. 15. **Tillett, B. B. (2004).** ***What is FRBR? A conceptual model for the bibliographic universe*****.** Washington, DC: Library of Congress. 16. **Welsh, A., & Batley, S. (2012).** ***Practical cataloguing: AACR2, RDA and MARC21*****.** London: Facet Publishing.
Web Resources:	1. Library of Congress: https://www.loc.gov 2. RDA Toolkit: https://www.rdatoolkit.org

Title of the Course	Library Automation, Databases, and Networking
Course Code	LIS-5006
Number of Credits	4
Theory/Practical	Theory
Level	500
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	Yes

Pre-requisites for the Course:	Basic Knowledge of ICT	
Course Objectives:	1. To have a better understanding of the historical, current, and future tendencies in library automation and technological evolution. 2. To familiarise oneself with the major companies in the library automation sector and their distinctive ILS products, both proprietary and open source. 3. To provide hands-on training in the use of library software, digital library software, web catalogues, ILMS, 4. Creating an institutional repository with open-source institutional repository software, effective search of online databases and search engines for academic and research work. 5. To provide hands-on training in developing skills in web page designing, use of reference management tools, and AI tools for the library.	
Course Outcomes:	At the end of the course, the students will be able to:	**Mapped to PSO**
	CO 1. Understand the historical evolution, current trends, and emerging technologies in library	PSO 1, PSO 4, PSO 8

	automation.			
	CO 2. Identify and evaluate major companies in the library automation sector, along with their proprietary and open-source Integrated Library Systems (ILS).		PSO 1, PSO 3, PSO 4	
	CO 3. Demonstrate proficiency in using library and digital library software, ILMS, OPACs, and in creating institutional repositories using open-source platforms.		PSO 3, PSO 4, PSO 6	
	CO 4. Search, retrieve, and evaluate academic and research information using online databases and search engines effectively.		PSO 1, PSO 3, PSO 5	
	CO 5. Develop practical skills in web design, reference management, and the application of AI tools in libraries.		PSO 4, PSO 6, PSO 8	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Library Automation:** Definition, Need, Purpose, Barriers, Advantages. Historical development. Planning for library automation. Evaluation of library automation systems. Criteria for evaluation. Evaluation techniques. Standards relevant to library automation. Automation of Library Services /operations and application of modern technologies. Acquisition, Cataloguing, OPACs, Circulation, Serials Control, CAS, SDI, ILL, Stock Verification, Reference Service, MIS, System Administration.	**10**	CO1, CO3	K1, K2, K4
Module 2:	**Standards and Protocols**: Dublin Core, MARC Cloud-based and web-based library automation. Application of Barcode and RFID Technology for Library Functions. Application of Artificial Intelligence (ML, DL), Augmented Reality, Virtual Reality, Digital Libraries Software (DSpace, Greenstone).	**10**	CO2, CO3, CO5	K2, K3, K4, K6
Module 3:	**Library Networks and Consortia**: Historical Developments of Library Cooperation and Networking. Consortia Concept, Need, Purpose, History; ERNET, NICNET, DELNET, INFLIBNET, JANET, BLAISE, OCLC, Library Consortia: Concept, Purpose, Library Consortia at National and International Level, NKRC, ERMED, CeRA, DeLCON, N-List, e-ShodhSindhu, Shodh-Ganga. LISA. LISTA.	**10**	CO1, CO2, CO4	K1, K2, K3, K5

	NDLI. Computerised Information Services and Networking: Computerized alerting services; Automated cataloguing; Z39.50; MARC; Dublin Core. Network software; Web-based automation (cloud-based). Future of library automation software			
Module 4: PRACTICAL	4.1 LMS (Koha, E-Granthalaya), Digital Library Software (DSPACE)	**10**	CO3	K3, K6
	4.2. Reference Management Tools (Mendeley, Zotero), Quillbot, Discovery Tools	**10**	CO4, CO5	K3, K4, K6
	4.3.Website designing (WordPress, Weebly), Databases (Science Direct, IEEE, ERIC, Springer)	**10**	CO4, CO5	K3, K4, K6
Pedagogy:	Lectures, Presentations, Hands-on Training, Discussions, Blended Learning			
Texts:	1. **Lucy, A. T. (2005).** ***An introduction to computer-based library systems*** **(3rd ed.).** Chichester, UK: Wiley. 2. **Malwad, N. M. (1996).** ***Digital libraries: Dynamics store-house of digitised information*****.** New Delhi: New Age International. 3. **Patnaik, S. (2001).** ***First textbook on information technology*****.** New Delhi: Dhanpat Rai Publishing. 4. **Rao, R. (1996).** ***Library automation*****.** New Delhi: New Age International.			
References/ Readings:	1. **Arai, K. (Ed.). (2025).** ***Advances in information and communication: Proceedings of the 2025 Future of Information and Communication Conference (FICC), Volume 2*****.** Cham, Switzerland: Springer. 2. **Banerjee, A. (2020).** ***Software packages for library automation*****.** New Delhi: Ess Ess Publications. 3. **Jeanne, F. M. (2006).** ***A librarian's guide to the Internet: A guide to searching and evaluating information*****.** Oxford, UK: Chandos Publishing. 4. **Jones, R. (2006).** ***The institutional repository*****.** Oxford, UK: Chandos Publishing. 5. **Kumar, P. (2004).** ***Information technology: Applications (theory and practice)*****.** Delhi: B.R. Publishing Corporation. 6. **Lancaster, F. W. (1990).** ***Electronic publishing and their implications for libraries and beyond*****.** London: Clive Bingley. 7. **Narayan, P. (2022).** ***Library automation in modern age*****.** New Delhi: Ess Ess Publications. 8. **Rich, E., & Knight, K. (1994).** ***Artificial intelligence*** **(2nd ed.).** New York, NY: McGraw-Hill.			

	9. **Viswanathan, T. (1995).** ***Communication technology*****.** New Delhi: Tata McGraw-Hill. 10. **Zorkoczy, P. (2005).** ***Information technology: An introduction*****.** Oxford, UK: Otiman Press.
Web Resources:	1. http://www.makebarcode.com/info/info.html 2. https://epgp.inflibnet.ac.in/ 3. https://bywatersolutions.com/koha-demo 4. https://demo.dspace.org/home 5. https://spoken-tutorial.org/

Title of the Course	Information Retrieval
Course Code	LIS-5007
Number of Credits	4
Theory/Practical	Theory
Level	500
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	Yes

Pre-requisites for the Course:	Knowledge of different types of information sources and information organization needed.	
Course Objectives:	1. To introduce the fundamental concepts, models and components of information retrieval (IR). 2. To develop an understanding of indexing, classification systems and vocabulary control tools that support information organization and retrieval. 3. To enable students to apply search strategies in information retrieval process. 4. To cultivate analytical skills to evaluate the IR systems	
Course Outcomes:	At the end of the course, students will be able to:	**Mapped to PSO**
	CO 1. Identify and describe the fundamental concepts, models and techniques of information retrieval systems.	PSO1
	CO 2. Apply appropriate search strategies and retrieval techniques to access relevant information.	PSO4
	CO 3. Analyze and evaluate IR systems in meeting users' information needs.	PSO6

	CO 4. Design an indexing system for retrieving information		PSO6	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Information Retrieval:** Information Retrieval: Basic concepts, Definition, Objectives, Components, Functions. Indexing: Meaning, Purpose, Need, Pre-coordinate Indexing, Post-coordinate Indexing, Automatic Indexing. Pre-coordinate Indexing - Chain procedure, POPSI, PRECIS, Keyword Indexing. Post-coordinate Indexing - Uniterm, Citation Indexing Evaluation of IRS: Purpose, Evaluation, Criteria, Steps of evaluation.	**15**	CO1, CO3	K1, K2, K4
Module 2:	**Vocabulary Control**: Meaning, Importance of vocabulary control, Controlled v/s Uncontrolled vocabulary. Vocabulary control tools: Subject heading, Thesauri, Thesaurofacet, Classaurus Thesaurus construction techniques	**15**	CO1, CO2	K2, K3
Module 3:	**Information Retrieval Models**: Information Retrieval Models - Boolean Model, Vector Space Model, Probability Model. Case study of Controlled Vocabularies/ontologies	**15**	CO3, CO4	K2, K4
Module 4:	**Web Information Retrieval:** Search Engines - Definition, Functions and Components of Search Engines, Meta Search Engines, Search strategies and techniques, Full Text retrieval, User Interfaces.	**15**	CO2	K3, K4
Pedagogy:	Lecture method / assignments / self-study / presentations			
Texts:	Croft, W. B., Metzler, D. and Strohman, T. (2015). Search Engines Information Retrieval in Practice. Pearson Education.			
References/ Readings:	1. **Alberico, R., & Micco, M. (1990).** ***Expert systems for reference and information*****.** Westport, CT: Greenwood Press. 2. **Atchison, J., & Gilchrist, A. (1972).** ***Thesaurus construction: A practical manual*****.** London: Aslib.			

	3. **Bates, M. J. (2011).** ***Understanding information retrieval systems: Management, types and standards*****.** Boca Raton, FL: Auerbach Publications. 4. **Chowdhury, G. G. (2003).** ***Introduction to modern information retrieval*** **(2nd ed.).** London: Facet Publishing. 5. **Ford, N. (1991).** ***Expert systems and artificial intelligence: An information perspective*****.** London: Library Association Publishing. 6. **Ghosh, S. B., & Biswas, S. C. (1998).** ***Subject indexing systems: Concepts, methods and techniques*****.** Calcutta: IASLIC. 7. **Kowalski, G., & Maybury, M. (2002).** ***Information storage and retrieval systems: Theory and implementation*****.** Boston, MA: Springer. 8. **Krishnamurthy, S., & Akila, V. (2017).** ***Web semantics for textual and visual information*****.** New Delhi: Ess Ess Publications. 9. **Lancaster, F. W. (1968).** ***Information retrieval systems: Characteristics, testing and evaluation*****.** London: Facet Publishing. 10. **Pandey, S. K. (Ed.). (2008).** ***Library information retrieval*****.** New Delhi: Anmol Publications. 11. **Tiwary, U. S., & Siddiqui, T. (2008).** ***Natural language processing and information retrieval*****.** New Delhi: Oxford University Press.
Web Resources:	1. www.metacrawler.com 2. www.dogpile.com

Discipline Specific Elective Courses

Title of the Course	Library System and Study Tour
Course Code	LIS-5203
Number of Credits	4
Theory/Practical	Theory
Level	400
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. To explain the structure, functions, and evolving roles of academic libraries in supporting higher education and research. 2. To develop an understanding and need for library and information service support to different types of academic libraries. 3. To examine the governance, policy frameworks that influence the management of academic libraries. 4. To apply principles of collection development, user services, and digital resource management in academic library settings.	
Course Outcomes:	At the end of the course, students will be able to:	**Mapped to PSO**
	CO 1. Identify the key functions, services, and organizational structures of academic libraries.	PSO 1

	CO 2. Explain the role of academic libraries in higher education, and networking.		PSO 3	
	CO 3. Apply policies and procedures related to collection development, acquisitions, and information literacy.		PSO 4	
	CO 4. Analyze issues related to governance, staffing, budgeting, and performance evaluation in academic libraries.		PSO 7	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Library Systems:** Evolution of Higher Education and Libraries in India. Meaning, Definition, Importance, Functions. Types of Libraries - Academic, Public, Special Libraries; Role of Libraries in Higher Education. - Higher Education and Libraries in India before independence and after independence. - Role of Libraries in the present electronic environment. - Challenges of Academic Libraries.	**10**	CO1, CO2	K1, K2
Module 2:	**Collection Development in Libraries:** Policies and Guidelines Ideal Characteristics of Library collection- Meaning and Definitions of collection development. - Book selection procedure. - Collection Development Policy in the digital environment. - Problems of collection development. - Copyright issues in the digital environment.	**15**	CO3	K2, K3
Module 3:	**Services in Library Systems**: Library Services - Digital Reference Services (DRS), Current Awareness and SDI Service (CAS & SDI), E-mail Altering Services, Electronic Document Delivery Services (EDDS), User Education and Information Literacy.	**15**	CO3	K3
Module 4:	Library Study Tour	**20**	CO4	K3
Pedagogy:	Lectures, Discussions and presentations			
Texts:	Dayal, B. (2011). ***Managing academic libraries: Principles and practice***. Delhi: Isha Books.			

References/ Readings:	1. Budd, J. M. (1998). *The academic library: Its context, its purpose and its operation*. Englewood, CO: Libraries Unlimited. 2. Dhiman, A. K. (2002). *Academic libraries*. New Delhi: Ess Ess Publications. 3. Flemming, H. (1990). *User education in academic libraries*. Chicago, IL: American Library Association. 4. Kaul, H. K. (1999). *Library resource sharing and networks*. New Delhi: Virgo Publications. 5. Kumar, A. (2023). *Public library systems in India*. New Delhi: Library Science Press. 6. Kumar, P. S. G. (2004). *Information sources and services: Theory and practice*. New Delhi: B. R. Publishing Corporation. 7. Mathews, B. (2009). *Marketing today's academic library: A bold new approach to communicating with students*. Chicago, IL: American Library Association. 8. Mitchell, E., & Seiden, P. (2015). *Reviewing the academic library: A guide to self-study*. Chicago, IL: Association of College and Research Libraries (ACRL). 9. Petruzzelli, B. W. (2006). *Real-life marketing and promotion strategies in college libraries: Connecting with campus and community*. New York, NY: Routledge. 10. Rajasekharan, K., & Nair, R. (1992). *Academic library effectiveness*. New Delhi: Ess Ess Publications.
Web Resources:	https://www.ala.org/acrl

Title of the Course	Marketing of Library Information Products and Services
Course Code	LIS-5204
Number of Credits	4
Theory/Practical	Theory
Level	4
Effective from AY	2025-2026
New Course	Yes
Bridge Course/ Value added Course	No
Course for advanced learners	No

Pre-requisites for the Course:	Nil	
Course Objectives:	1. Explain core marketing concepts and how they apply to library environments 2. Develop marketing recommendations and a marketing plan for a library or information services. 3. Analyze marketing strategies and trends to tailor library services accordingly. 4. Apply traditional and digital communication tools to effectively promote library services and increase user engagement.	
Course Outcomes:		**Mapped to PSO**
	CO 1. Explain fundamental marketing principles and their relevance to library and information services.	PSO1
	CO 2. Conduct market research to build library marketing strategies	PSO4

	CO 3. Design branding and repackaging techniques to enhance the visibility and value of library services.		PSO6	
	CO 4. Apply promotional materials to market information products and services		PSO4	
Content:		**No of hours**	**Mapped to CO**	**Cognitive Level**
Module 1:	**Information as a Resource:** Birth of the Information and Knowledge Societies, Understanding of information as a resource: Information as a commodity, Information Economics, Information Industry Growth, and Implications for Library and Information Services and Products, Transborder Data Flow (TBDF) Agencies, Types of TBDF, TBDF hurdles: Access, Linguistic, Legal, Economic, and Cultural (Information Consolidators, Aggregators, Consortia, etc.)	**10**	CO1	K1, K2
Module 2:	**Theories and Strategies of Marketing**: Marketing Theories. Marketing Strategies; Marketing concepts: Marketing Concept in Non-Profit Organisations: Portfolio Administration Product Market Matrix; Product Life Cycle, Pricing Information Marketing Mix; Kotler's Four C's; McCarthy's Four P's	**10**	CO2	K3
Module 3:	**Marketing research and pricing:** Marketing Research, Corporate Identity, and Marketing Plans. Geographic and Demographic Segmentation; Behavioural and Psychographic Segmentation; User Behavior and Adoption; Market Segmentation and Targeting. costing and pricing of Information Products and Services. Pricing influencing factors, Pricing strategies.	**20**	CO2	K4
Module 4:	**Information Analysis, Consolidation and Re-Packaging:** Information Analysis and Consolidation: Concept, Need and Purpose Packaging and Re-Packaging: Concept, Need, Purpose and Criteria Information Consolidation Products: Concept, Types, Design and Development	**10**	CO3	K3

Module 5:	**Promotion of LIS Products and Services:** LIS Products and Services as a Marketable Commodity Pricing, Distribution Channels and Communication Strategies Advertising, Sales Promotion Public Relations	**10**	CO4	K3
Pedagogy:	Lectures, field visits, presentations, audio-visuals.			
Texts:	Gupta, D. K., Koontz, C., & Savard, R. (Eds.). (2006). *Marketing library and information services: International perspectives*. Munich: K. G. Saur.			
References/ Readings:	1. **Armstrong, G., Kotler, P., & Opresnik, M. O. (2020). *Marketing: An introduction* (14th ed., Global ed.).** Harlow, England: Pearson. 2. **Cronin, B. (1981). *Marketing of library and information services*.** London: Aslib. 3. **Eileen, E. D. S. (2002). *Marketing concepts for libraries and information services* (2nd ed.).** London: Facet Publishing. 4. **IASLIC. (1988). *Marketing of library and information services (13th IASLIC Seminar papers)*.** Calcutta: Indian Association of Special Libraries and Information Centres (IASLIC). 5. **Jain, A. K., & Others (Eds.). (1995). *Marketing of information products and services*.** Ahmedabad: Indian Institute of Management (IIM). 6. **Kotler, P. (1975). *Marketing for non-profit organizations*.** Englewood Cliffs, NJ: Prentice-Hall. 7. **Kotler, P., Chernev, A., & Keller, K. L. (2022). *Marketing management* (16th ed.).** Harlow, England: Pearson Education. 8. **Saez, E. E. (1993). *Marketing concepts for libraries and information services*.** London: Butterworth-Heinemann. 9. **Scott, D. M. (2022). *The new rules of marketing and PR* (8th ed.).** Hoboken, NJ: Wiley.			
Web Resources:	https://ebooks.inflibnet.ac.in/lisp6/chapter/marketing-of-library-and-information-services/			