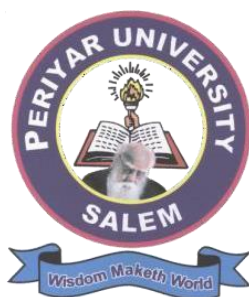


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PERIYAR UNIVERSITY

SALEM 636 011



M.Lib.I.Sc DEGREE

Library and Information Science

REGULATIONS AND SYLLABUS

(Effective from the Academic year 2023-2024 and thereafter)

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Faculty Members

Dr. C. Murugan	Professor and Head
Dr. N. Radhakrishnan	Professor
Dr. E.S. Kavitha	Assistant Professor
Dr. P. Gomathi	Assistant Professor
Dr. M. Palaniappan	Assistant Professor

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M.Lib.I.Sc DEGREE

OBeregulations and Syllabus

(With effect from the academic year 2023-2024 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 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 roles played by libraries, information organizations, information systems, services, and technologies in building and sustaining 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.

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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

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 programs 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: Students understand 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)

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- 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.

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)

LIS course will enable the students

1. Students can understand the foundation and fundamentals of LIS principles, philosophy, ethics, policies, and legislation.

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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.
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.

7. 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.

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8. 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.

9. CBCS- Structure of the Programme

The programme structure comprises two parts.

Course Component	No. of Courses	Hours of Learning	Marks	Credits
Part A (Credit Courses)				
Core Courses	14	1152	1500	69
Elective Courses	5	144	500	15
Non Elective Courses	2	108	200	04
Skill Enhancement	1		100	02
Extension Activity	1		100	02
Research				1
Total	23		2400	91
Part B (Self-Learning Credit Courses)				
Elective Foundation Courses				
Total				

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	Subject code	Paper	Inst. Hour s /	Exa m Hou				
					Credi t	Int.	Ext.	Total Marks
Semester- I	23UPLIS1C01	Foundation of Library and Information Science	7	3	5	25	75	100
	23UPLIS1C02	Information Processing – Classification and Cataloguing Theory	7	3	4	25	75	100
	23UPLIS1C03	Management of Library and Information Centers	6	3	4	25	75	100
	23UPLIS1L01	Information Processing Classification Practice (DDC & CC)	5	3	4	40	60	100
	23UPLIS1E01 (Generic)	Application of Information Communication Technology in Libraries	5	3	3	25	75	100
Semester- II	23UPLIS1C04	Information Sources and Services	6	3	5	25	75	100
	23UPLIS1C05	Library Automation and Digital Library (Theory)	6	3	5	25	75	100
	23UPLIS1L02	Information Processing – Cataloguing Practice AACR-II and UDC	6	3	4	40	60	100
	23UPLIS1E02 (Discipline centric)	Academic Library system	4	3	3	25	75	100
	23UPLIS1E03 (Gentric)	Library Networks Consortia and Resource Sharing	4	3	3	25	75	100
	23UPPGC1H01	Fundamentals of Human rights	2	3	1	25	75	100
Semester- III	23UPLIS1C06	Information Retrieval Systems	6	3	5	25	75	100
	23UPLIS1C07	Research Methodology	6	3	5	25	75	100
	23UPLIS1L03	Library Automation and Digital Library(Practice)	6	3	5	40	60	100
	23UPLIS1E04	Industry Information Centre	3	3	3	25	75	100

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	NME I 23UPLIS1N01	Research and Publication Ethics	3	3	2	25	75	100	
	23UPLIS1I01	Internship (Report and Presentation)	21 days	0	8	40	60	100	
Semester- IV	23UPLIS1C08	Marketing of Information Products and Services	6	3	5	25	75	100	
	23UPLIS1C09	Metric Studies	6	3	5	25	75	100	
	23UPLIS1P01	Project with viva	10	3	7	40	60	100	
	23UPLIS1E05 (Discipline centric)	Open Educational Resources	4	3	3	25	75	100	
	23UPLIS1S01	Skill Enhancement	4	3	2	25	75	100	
	23UPLIS1X01	Extension Activity		3	1	25	75	100	
	Total Credits					92	650	1650	2300

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FIRST SEMESTER

23UPLIS1C01: 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.

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Unit – V

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

Text & Reference Books:

1. Richard E Rubin. Foundations of Library and Information Science. New York, Neal-Schuman Publishers. 2004.
2. Reitz, Joan M. Dictionary for Library and Information Science. Libraries Unlimited, 2004.
3. Ranganathan, S. R. Five Laws of Library Science. 5th ed. Bangalore: Sarada Ranganathan Endowment for Library Science, 2006.
4. 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.
5. Budd, John, Knowledge and Knowing in Library and Information Science: A Philosophical Framework, Scarecrow Press.2001.
6. Faruqi, Khalid Kamal & Alam, Mehtab, Net-Studies in Library and Information Science, Aakar Books. 2005.
7. Henderson, Kathrine A., Case Studies in Library and Information Science Ethics, McFarland.2009.
8. Rubin, Richard, Foundations of Library and Information Science, Neal-Schuman Publishers, Incorporated.2010.
9. Saravanan, T., Library & Information Science, APH Publishing 2005.

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Web Resources:

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

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

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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

**23UPLIS1C02: INFORMATION PROCESSING – CLASSIFICATION &
CATALOGUING 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, Purpose, Functions - Canons and Postulates - Knowledge Classification and Book
Classification - Notation: Meaning, Need, Functions, Types, Qualities, Call number

Unit- II Subject Formation and Laws of Classification

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

Unit-III 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

Unit- V Catalogue Arrangement

Centralized and Co-operative Cataloguing - Union Catalogue- Arrangement and Filing of
Entries, Organization of digital resources

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Text & Reference Books:

1. Krishna Kumar, Theory of Classification, 2nd rev.ed. Delhi, Vikas, 2001.
2. Kumar, P.S.G...Knowledge organization, information processing, and retrieval theory, Delhi: B. R. Publishing.2003
3. Susan Batley: Classification in theory and practice, 2ndEd, Chandos publishing 2014.
4. Ranganathan, S.R & Malur Aji Gopinath, Prolegomena to Library Classification, Ess Ess Publications, 2006
- . Maxwell, R. L. & Connell, T. H. (Eds,) Future of cataloguing. Chicago: ALA, 2000.

Web Resources:

1. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-010.pdf>
2. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-011.pdf>
3. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-009.pdf>
4. <http://krishikosh.egranth.ac.in/bitstream/1/20325/1/46129.pdf>
5. https://en.wikipedia.org/wiki/Library_catalog

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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

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

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23UPLIS1C03: 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

- i) Schools of Management Thought and Functions of Management- Henri Fayal
- Frederick Winslow Taylor - Scientific Management - Levels of Management
- Management by Objectives.
- ii) Elements of Management - POSDCORB
- iii) Basics of Total Quality Management
- iv) Change Management

Unit-II: LIBRARY HOUSEKEEPING OPERATIONS

- i) Collection Development Policy and Procedure & Selection Tools for Books and Non-Books Materials – Good Offices Committee.
- ii) Various sections of library and information centers and their functions
 - a) Acquisitions section – Conventional - Web-based / online Acquisition of reading materials
 - b) Technical section
 - c) Circulation section –Member Registration; Issue, Return, Renewal; Records and Statistics
 - d) Periodical section - Methods of Subscribing & recording
 - e) Reference Section
 - f) Administrative Section

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- g) Stock arrangements - maintenance and Stock verification -
Open vs closed access - Binding and Preservation - Weeding
out / Write off policies.

Unit-III: FINANCIAL MANAGEMENT

- i) Sources of Funding
- ii) Budgetary Methods - Line Budget, Formula, Program Budget, Performance Budget, Zero Based Budgeting
- iii) Cost-effective and cost-benefit analysis
- iv) Physical Infrastructure - Library Buildings, Furniture, and Equipment.

Unit-IV: HUMAN RESOURCE MANAGEMENT

Staffing – Selection & Recruitment – Induction and Deployment - Performance Appraisal – Motivation

Unit-V: MANAGERIAL TASKS in LIBRARY ADMINISTRATION

Role of a Library Manager- Library Governance - Library authority - Library committee, need and functions - Professional Ethics – Library rules and regulations – Norms for the library (AICTE, UGC, MCI, etc.) -Challenges for Librarianship in the digital era.

Texts & References Books:

1. Krishnan Kumar: Library Administration and Management. New Delhi: Vikas, 1987.
2. Mittal, RL Library Administration: Theory and Practice. ESS ESS Publications, 2nd Edition, New Delhi.
3. Ranganathan, S.R.: Library administration. 2nd ed. Bombay, Asia
4. Ranganathan, S.R.: Library Book Selection, ESS ESS Publications, 2nd Edition, New Delhi.
5. Sethunath, V.S., and Ganesh Kumar, M, Librarianship in Digital Era, Crescent Publication Corporation, New Delhi, 2012.
6. Praveen Kumar (Ed), Emerging Trends in Library and Information Science, ESS ESS Publications, New Delhi, 2013.
7. Robert D. Stuart, Barbara, Library and Information Center Management, Libraries Unlimited, 7th edition, 2007. (e-book)

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Web Resources:

1. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-015A.pdf>
2. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-016A.pdf>
3. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-011.pdf>
4. <http://www.lisbdnet.com/library-budget-objectives-methods/>
5. <http://epgp.inflibnet.ac.in/ahl.php?csrno=21>
6. <https://www.marxists.org/reference/subject/economics/taylor/index.htm>
7. Levels of Management - Top, Middle, and Lower Level (Kalyan-city.blogspot.com)
8. <https://www.easymangementnotes.com/levels-of-management/>
9. https://www.youtube.com/watch?v=8FlgOZFnP_Q
10. <https://www.youtube.com/watch?v=AYTz8EsQ3ok>

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

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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	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

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**23UPLIS1L01: INFORMATION PROCESSING –CLASSIFICATION
PRACTICE**

(DDC &CC PRACTICAL)

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 submits them same at the time of practical examination.

Texts & Reference Books:

1. DDC.23, OCLC Ohio,2003
2. Ranganathan,S.R.ColonClassificationEd.6.Bombay, AsiaPublishingHouse,1960

web resources:

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

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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 otherreading 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

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

**23UPLIS1E01: 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: Telnet, 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

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Unit V: Database Management Systems

Database: Concepts and Components, Database Structures, File Organization and Physical Design, Database Management System: Basic Functions, Potential Uses, Digital Rights Management (DRM), DOI

Texts & Reference Books:

1. Rajaraman, V., Introduction to Information Technology, 3rded.New Delhi, PHI Learning Pvt. Ltd., 2018.
2. Rizwan Ahmed. P, Introduction to information Technology, Chennai, Margham Publications, 2013.
3. Rajiv R. Paithankar, Govind S. Ghogare, Information Technology in Library Science, Anmol Publications Pvt. Ltd. New Delhi, 2015.
4. Comer, D. E. The Internet book: everything you need to know about computer networking and how the Internet works. Chapman and Hall/CRC, 2018.
5. Davie, B. S., & Peterson, L. L. Computer networks. Gan Kaufmann, 2019.
6. Hills, H. Power Searching the Internet: The Librarian's Quick Guide. ABC-CLIO, 2019.
7. Panek, C. Windows Operating System Fundamentals. John Wiley & Sons, (2018).
8. Silberschatz. Database System Concepts Paperback. McGraw-Hill, 2013.

Web Resources:

1. 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
2. <https://www.nic.in/servicesmapage/>
3. <https://www.inflibnet.ac.in/>
4. <http://www.delnet.in/>
5. <http://oer.nios.ac.in/wiki/index.php/ICT-Application>

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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 softwares 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

SECOND SEMESTER

23UPLIS1C04: INFORMATION SOURCES AND SERVICES

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 Sources - Internet source, Evaluation of Information Sources.

Unit – II

Reference Source – Types– Dictionaries, Encyclopedias – Biographical – Handbooks and Manuals – Geographical – Abstracting and Indexing sources, Bibliographical Sources – INB, BNB, Electronic Information Sources – E-Books, E-Journals, Databases – Full text, Bibliographical and Citation, WWW, Repositories, Subject Gateways.

Unit – III

Information Services: Current Awareness Service, Selective Dissemination Service, Literature Search, Translation Service, Document Delivery Service – Print & Electronic document delivery, Referral Service, Web-based Information Services - Blogs, Online Reference service etc.

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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).

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>
6. <https://nios.ac.in/media/documents/SrSecLibrary/LCh-014.pdf>

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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

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

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23UPLIS1C05: 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 softwares.

Unit – I

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

Unit - II

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

Unit – III

Digital Libraries Basics: Definitions, Concept, Characteristics, functions and advantages- Digital Library collection - Major Digital Library Initiatives – National Digital Library of India

Unit – IV

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

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: LibraryAssociation.
3. Lakshmikant Mishra, Automation and Networking ofLibraries, New AgeInternational, 2008.

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**

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**23UPLIS1L02: INFORMATION PROCESSING AND RETRIEVAL –
CATALOGUING PRACTICE -AACR– II and UDC**

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).Practicalcataloguing AACR 2, New Delhi, EssEss 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) SEARSListof Subject Headings 20 the edition The H. W. Wilson Company New York
6. 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

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Mapping with Programme Outcomes

	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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23UPLIS1E02: 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 applications of new ICT tools in academic library management.

Unit-I

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

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

Administration of Academic Libraries: Library Authority and Library Committee– Financial Management– Allocation of Funds to Academic Libraries, Statistics – Files and Records, Staff Development and Continuing Education Staffing Norms and Standards; Personnel Management.

Unit-IV

Resource Sharing: Need and Objectives, Consortia –e-ShodhSindhu, Implications to Library Resource Sharing, Library Networks – DELNET, ERNET in India and International, ShodhGanga, ShodhGangotri, VidyaMitra, IRINS, Vidwan database.

Unit-V

User education & Future trends: Information Literacy Programme in Academic Libraries –Academic Library Repositories, Future trends in academic library development.

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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

	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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23UPLIS1E03: 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, HYLIBNET, NICNET, ERNET, INFLIBNET, and BTISNET, etc.

Unit– III Library Networks at International Level:

OCLC, CURL, RLG, JISC, 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: LYRASIL, Finnish National Electronic Library (FinELIb) in Finland library consortia, SCONUL - UK Academic Library Consortia, China Academic Library and Information System (CALIS), National and State Libraries Australasia (NSLA) eResources Consortium.

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Text & References:

1. Balakrishnan, Shyam Networking and the future of libraries. New Delhi: EssEss, 2000.
2. Jha, Pavankumar. Library Networks and Network based Information Services in India
3. Kaul, S. Information Resource Sharing Models in Developing Countries: a network emerging from the World Bank-supported environmental management capacity- building project. <http://www.fh-posdan.de/~IFLA/INSPEL 01-1kasu.pdf>
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.

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/>
9. <https://ess.inflibnet.ac.in/>
10. <http://www.rri.res.in/htmls/library/forsa.html>

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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

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

23UPPGCIH01: 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 HIV/AIDS - 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).

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Unit –V: Human Rights Violation

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 & References

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

THIRD SEMESTER

23UPLIS1C06: 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, Scope, and Importance, functions, 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, Institutional Repositories.

Unit IV

Searching Techniques and Models: Search strategies, Boolean Search, Proximity 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 – Criteria, Cost-effectiveness, Cost-benefit, recent trends in IR, Evaluation Methodology: Criteria and Steps in Evaluation: Recall and Precision.

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Texts & Reference Books:

1. Chowdhury (G.G.): An introduction to modern information retrieval. 3rded. London: Facet, 2010.
2. Chrishoper D. Manning, Prabhahar Rayhavan and HinrichSchutze, 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.ijnglt.com
2. <https://www.cse.iitk.ac.in/users/nsrivast/HCC/search%20engines.pdf>
3. 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

	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		M	L	S	L	L	L	-	-	L
CO4	S	M		S	M	S	S	S	S	M	M	S
CO5	S	L		S	M	M	S	S	M	S	S	S

S- Strong; M-Medium; L-Low

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22UPLIS1C07: 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 Classification of Research: Fundamental / Pure Vs. Applied, Inter-Disciplinary Vs. Multidisciplinary, Individual Vs. Collaborative research 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.

Unit – III

Research Methods: Historical, Descriptive, Experimental, Case-Study, Survey Method, Scientific Method, Metric Studies in LIS

Unit – IV

Methods Data Collection: Primary data - Questionnaire, Interview, Observation; Secondary data - Library records, Reports, Rating Scales.

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 writing: Components of Research Report; Style Manuals, Presentation of data -

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Tabular, graphic, bar diagram, pie, line graphics; Reference Management Tools, Research Ethics.

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 Outcomes

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,K4	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

	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

23UPLIS1L03: LIBRARYAUTOMATION ANDDIGITALLIBRARY
(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:

- a) Library Automation Softwares: **KOHA**
- b) Digital Library Software Packages: **Digitization, Selection, Scanning process, Conversion formats.**
- c) **Greenstone and D-space – Creation of Communities, Collection, and Submission methods**
- d) **Institutional Repositories, Thematic Repositories**
- e) Web Technologies: Weblog; Website; mobile applications Software

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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

	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

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23UPLIS1E04: INDUSTRYINFORMATIONCENTRE (IIC)

Course Objectives

- Understand the nature and functions of IIC,
- Gain complete knowledge of information products and services needed for IIC,
- Provide suitable services required for IIC.

Unit– I

Introduction – Need and Functions of Industries Libraries, types of users, and their needs.

Unit– II

Collection Development Objectives and Purpose, Collection development Planning, Implementation, and evaluation. Book selection procedure and policies. Selection and Acquisition of books, periodicals, technical reports, patents, standards, government documents, and non-book materials, including electronic publications: Library documents Organization of Information Resources, including non-book and electronic publications; Planning and Organization of Library and Information Services.

Unit–III

Web-enabled information services, Social networks – Blogs, Twitter, Facebook, Research Gate, and Google Scholar.

Unit– IV

Industry Communication - Bulletin listing new books, pamphlets, and trade catalogs compilation of bibliographies.

Unit– V

Resource Sharing and Networking of Industry Libraries in India and International.

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Text & Reference Books:

1. Porter, Marjorie J., Best Practices for Corporate Libraries, Libraries Unlimited; 1edition, 2011. (e-Book)
2. Connolly, Suzanne. Knowledge and Special Libraries: Series: Resources for the knowledge-based economy, Butterworth-Heinemann, 1999 (e-Book)
3. Bopp, Richard E., Reference and Information Services, ABC-CLIO, LLC, 2011. (e-Book)

Course Outcomes

CO1	To be acquainted with the IIC,	K1	LO
CO2	To train students about the IIC, products, and services,	K2	LO
CO3	To train the students' use of blogs & social network sites to provide library services.	K3	LO
CO4	To develop acquaintance with the national and International level IIC.	K2.K3	LO
CO5	To Analyze and Evaluate the students developments and trends in the field of Resource sharing and Networks	K4,K5	HO

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

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Mapping with Programme Outcomes

	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	-	-	L
CO4	M	M	L	S	M	S	S	M	S	-	-	L
CO5	S	S	M	M	S	M	S	M	S	L	-	S

S- Strong; M-Medium; L-Low

23UPLIS1N01: 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 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.

Unit IV: Plagiarism

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

Unit V: Database and research metrics

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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, altmetric

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.

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/>
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>

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19. Journal Finder/ Journal suggestions tools

20. JANE: <https://jane.biosemantics.org/>

21. Elsevier Journal Finder: <https://journalfinder.elsevier.com/>

22. Springer Journal Suggester: <https://journalsuggester.springer.com/>

On completion of this course, the students would be able to:

CO1	Will have a positive attitude towards the publication of research	K1	LO
CO2	By knowing the issues and options of research publication	K2	LO
CO3	Obtain knowledge of research publishing practices such as fairness, honesty, and integrity	K3	LO
CO4	Develop professional competence and expertise in research tools.	K4	HO
CO5		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	S	S	L	S	M	S	S	M	M	L
CO2	S	S	M	M	M	M	S	M	M	S	M	L
CO3	M	M	M	S	M	S	M	L	M	M	M	M
CO4	M	L	M	S	S	M	M	S	M	L	S	M

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CO5												
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S- Strong; M-Medium; L-Low

23UPLIS1I01: INTERNSHIP – 3 WEEKS

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:

1. During the course, one casual leave is permitted.
2. 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

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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

FOURTH SEMESTER

23UPLIS1C08: MARKETING OF INFORMATION PRODUCTS AND SERVICES

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 Strategies – Marketing LIS.

Unit - II

BCG Matrix Model – Product Market Mix– Product Life – Cycle – Pricing Information– Competition Analysis

Unit -III

Kotler's Four C's – McCarthy's Four P's. Corporate Mission

Unit -IV

Market Segmentation and Targeting– Geographic and Demographic Segmentation– Behavioral Segmentation– User Behavior and Adoption– Marketing Advertisement.

Unit -V

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Information and Publishing Industries– National and International– E-Marketing, Social Media in Marketing of Information, Marketing of Information Products and Services

Texts &Reference Books:

1. Mah – E – Bushra Asghar and Rubina Bhatti, Marketing of library and information services and products, Lambert Academic Publishing, 2012.
- 2.HareRam Singh, E-Marketing, Anmol Publications Pvt. Ltd., New Delhi, 2011
Bahuguna, Pallavi, International Marketing, Anmol Publications Pvt. Ltd., New Delhi,2011.
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	K4	HO

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	information products and services matching user needs.		
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

	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

23UPLIS1C09: 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, informetrics, webometrics, and altmetrics.
- 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, Librametrics, Scientometrics, Informetrics, Webometrics, Cybermetrics, and Altmetrics.

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.

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Unit–V

Application of Quantitative and Qualitative tools and techniques in LIS Research

Text & Reference Books:

1. Rafael Ball: An introduction to Bibliometrics 1 st Ed 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 information retrieval. New Delhi: EssEss Publications, 2012.
5. RavichandraRao, I. K. (1985). Quantitative methods for library and information science. New Delhi: Wiley Eastern

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
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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

	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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23UPLIS1P01 - Project: Dissertation & Viva-Voce

Common Guidelines for the evaluation of Dissertation and Viva-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.

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- 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.

23UPLIS1E05: OPEN EDUCATIONAL RESOURCES

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

Definition, History, and Development of OER, Benefits of OER, Open Access Vs. Open Educational Resources, Types of OER – by content, functionality; Creative Commons Licensing System.

Unit –II

Initiatives of OER - 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

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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

Institutional Repository: SHERPA - Securing a Hybrid Environment for Research Preservation and Access, SPARC - The Scholarly Publishing and Academic Resources Coalition, Open DOAR, National Repository of Open Educational Resources (NROER)

Unit – V

Role of Libraries; Case Study- UNESCO, Indian Academy of Science (IAS), Bangalore.

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:

- i) <http://www.cec.nic.in/>
- ii) <http://www.elearningmicrobiology.com/>
- iii) <http://www.egyankosh.ac.in/>
- iv) <http://www.ekalavya.it.iitb.ac.in>
- v) <http://www.epgp.inflibnet.ac.in/> IGNOU Online
- vi) <http://www.onlineadmission.ignou.ac.in/>
- vii) <http://www.oer.nios.ac.in/wiki/index.php/Main.page>
- viii) <http://www.nptel.ac.in>
- ix) <http://uksg.metapress.com/media/d86tgdpapf4yv1806yww/contributions/y/b/j/r/ybjrxg-wpp57hvllf.pdf>
- x) <http://www.col.org/programmes/technology-enabled-learning>
- xi) <http://ocw.tufts.edu>

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- xii) <http://www.sherpa.ac.uk>
- xiii) <https://sparcopen.org/>
- xiv) <https://www.oercommons.org/>
- xv) <https://www.merlot.org/merlot/index.htm>
- xvi) <https://doaj.org/>
- xvii) <http://www.oajse.com/>
- xviii) <http://www.ias.ac.in/>
- xix) <http://nopr.niscair.res.in/>
- xx) <http://www.doabooks.org>

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

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Mapping with Programme Outcomes

	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

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23UPLIS1S01

SKILL ENHANCEMENT

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23UPLIS1X01

EXTENSION ACTIVITY