



SYLLABUS

**MASTER OF LIBRARY AND INFORMATION SCIENCE
(M.L.I.Sc.)**

COURSE AS PER CHOICE BASED CREDIT SYSTEM



Programme Outcomes

Mangalore University as a centre for higher learning, research and training continuously strives to impart high quality post graduate education in science, social science, humanities and languages. It promotes quality academic research in all areas of knowledge and contributes significantly to the knowledge growth for nation's prosperity. It trains academicians, researchers, practitioners and executives with advanced skills through continuous learning programs.

University's Program outcome

Mangalore University strives to produce post graduates in science, social science, humanities and languages with the knowledge, analytical skills, ethical values and leadership qualities. The post graduate students of this university:

Learning:

- PO01 Apply their learning to specific problems and challenges in their workplace and professional settings
- PO02 Use their knowledge to positively impact their profession, communities, and society
- PO03 Demonstrate an understanding of the methods of inquiry used in their professional or academic field
- PO04 Practice legal and ethical integrity in their professional work and demonstrate a commitment to lifelong learning.
- PO05 Effectively communicate their ideas and the rationale behind them to others
- PO06 Facilitate positive social change where they work, in their communities, and in society.
- PO07 Support diversity and multiculturalism within their profession, communities, and society.

Teaching:

- PO08 Demonstrates understanding of the practices of curriculum design, instructional planning and assessment as they relate to continuous improvement of teaching and learning and how they each fit into a systems approach to teaching and learning.
- PO09 Demonstrates the capacity to develop professional learning communities within the university and the capacity to infuse data and information into the collaborative process of developing better practices in teaching and learning.
- PO10 Demonstrates how to plan for curriculum, instruction and assessment that honours diversity and cultural competence.
- PO11 Provides assessment of student learning in ways that promote student self-assessment; provide information needed by teachers to adjust instruction, and frames the information needed for public reporting of student learning.
- PO12 Provides for the continuous professional development of all instructional staff to continuously improve practice and ensure the capacity to teach all students, advancing equity in opportunities to learn and the equitable distribution of learning outcomes.

Research:

- PO13 Promotes academic research by producing quality research outputs of research studies of national importance
- PO14 The research outputs contributes significantly to the growth of literature and nation's prosperity.
- PO15 The researchers gain strong inquiry, analytical and critical thinking and practice them in decision making activities.
- PO16 As quality research is self-driven, it keeps igniting mind of researchers for further research studies /projects useful for profession and society. Government and other agencies do encourage research studies for national growth and prosperity

As part of continuous improvement processes, program outcomes may be modified over time by the university to clarify the aims of programs and further support student learning.



PROGRAMME SPECIFIC OUTCOMES (PSO)

MLIS Program Learning Outcomes

Library is a service organization whose products are tangible and intangible. The basic philosophy of any library is to serve and satisfy the information needs of information seekers. Library and Information professionals must be aware of diverse information needs and ensure those needs are met. The Dept. of Library and Information Science (LIS) of Mangaluru University equips students with the necessary knowledge and skills to accomplish this across a broad range of occupations and contexts in all types of library and information centres (public, academic, special S&T, R&D, health etc). The university's LIS graduates understand both the theory and the practice of LIS as a subject discipline: 1) they study the foundations and principal ideas of the discipline, and they have been introduced to the values and expectations of the profession. 2) The faculty members foster critical thinking about the literature of LIS and related fields, and they encourage high standards of professionalism and service. 3) The LIS graduates of the Mangaluru University are prepared to develop and evaluate resources and programs and to understand the needs of different kind of users. Students who have completed LIS program are equipped to anticipate social and technological changes, and to promote change that advances the profession, improves technology, and encourages positive social transformation.

Upon completion of the MLIS program, students will be able to:

PSO1: Understand the basic concept of library and information science professions

PSO2: Integrate as a part of the university efforts in democratizing access to information by training the graduates from different backgrounds to become proactive knowledge workers in the process of collecting, organizing, consolidating, repackaging and disseminating the knowledge/ information for social transformation, scientific and technological growth and economic prosperity.

PSO3 Preparing the manpower to be dynamic social change agents in managing, monitoring and disseminating the information by utilizing the ICT and related technologies.

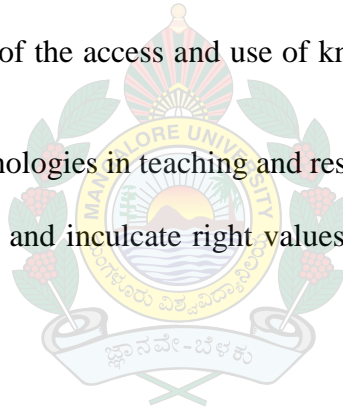
PSO4: Training the manpower in capturing and preserving the tacit knowledge in the light of the emphasis on the importance of traditional knowledge. Restructuring and reviewing LIS curriculum to cope up with changing socio- economic, cultural and technological environment.

PSO5: Create an awareness of the evolution of the knowledge society an its role in the social transformation.

PSO6: Analyze the complex issues of the access and use of knowledge and its productive utility in the social development.

PSO7: Promote the use of new technologies in teaching and research.

PSO8: Promote leadership qualities and inculcate right values among students by encouraging the ethical practice.



SYLLABUS FOR

MASTER OF LIBRARY AND INFORMATION SCIENCE (M.L.I.Sc.) COURSE AS PER CHOICE BASED CREDIT SYSTEM (CBCS) (SEMESTER SCHEME)

I-SEMESTER

Course code	Title of the Course	Scheme of examination						Credit Value	
		IA	Univ. Exam.	Total Marks	Credit Patten				
						L	T	P	
Hard Core									
LSH401	Foundations of Library and Information Science	30	70	100	3	1	0		4
LSH402	Information Processing: Classification	30	70	100	3	1	0		4
LSH403	Information Processing: Cataloguing	30	70	100	3	1	0		4
LSH404	Information Technology-I	30	70	100	3	1	0		4
Soft Core									
LSP405	Information Processing: Classification-I (Practice)	30	70	100	0	1	3		4
LSP406	Information Processing: Cataloguing-I (Practice)	30	70	100	0	1	3		4

II-SEMESTER

Course code	Title of the Course	Scheme of examination						Credit Value	
		IA	Univ. Exam.	Total Marks	Credit Patten				
						L	T	P	
Hard Core									
LSH451	Management of Libraries and Information Centres-I	30	70	100	3	1	0		4
LSH452	Information Technology-II	30	70	100	3	1	0		4
LSP453	Information Processing: Classification-II (Practice)	30	70	100	0	1	3		4
LSP454	Information Technology-I (Practice)	30	70	100	0	1	3		4
Soft Core									
LSS455	Information Sources and Services	30	70	100	3	1	0		4
Open Elective									
LSE456	Reference/Information Sources	30	70	100	3	1	0		4

III-SEMESTER

Course code	Title of the Course	Scheme of examination						
		IA	Univ. Exam.	Total Marks	Credit Patten			Credit Value
					L	T	P	
Hard Core								
LSH501	Information Retrieval	30	70	100	3	1	0	4
LSH502	Management of Libraries and Information Centres-II	30	70	100	3	1	0	4
LSH503	Research Methods in Librarianship	30	70	100	3	1	0	4
Soft Core								
LSP504	Information Processing: Cataloguing -II (Practice)	30	70	100	0	1	3	4
LSP505	Work Experience and Library Tour	30	70	100	0	0	0	4
Open Elective								
LSE506	Reference/Information Services	30	70	100	3	0	0	3

IV-SEMESTER

Course code	Title of the Course	Scheme of examination						
		IA	Univ. Exam.	Total Marks	Credit Patten			Credit Value
					L	T	P	
Hard Core								
LSH551	Information Systems and Services	30	70	100	3	1	0	4
LSH552	Information Technology – III	30	70	100	3	1	0	4
LSP553	Information Technology – II (Practice)	30	70	100	0	1	3	4
LSP554	Dissertation	30	70	100	0	1	3	4
Soft Core								
LSS555	Management Information System (MIS)	30	70	100	3	1	0	4
OR								
LSS556	Conservation and Preservation of Information Resources							

List of Hard Core, Soft Core and Open Elective courses

Hard Core

LSH401	Foundations of Library and Information Science
LSH402	Information Processing: Classification
LSH403	Information Processing: Cataloguing
LSH404	Information Technology–I
LSH451	Management of Libraries and Information Centres-I
LSH452	Information Technology–II
LSP453	Information Processing: Classification–II (Practice)
LSP454	Information Technology–I (Practice)
LSH501	Information Retrieval
LSH502	Management of Libraries and Information Centres-II
LSH503	Research Methods in Librarianship
LSH551	Information Systems and Services
LSH552	Information Technology – III
LSP553	Information Technology – II (Practice)
LSP554	Dissertation

Soft Core

LSP405	Information Processing: Classification–I (Practice)
LSP406	Information Processing: Cataloguing–I (Practice)
LSS455	Information Sources and Services
LSP504	Information Processing: Cataloguing -II (Practice)
LSP505	Work Experience and Library Tour
LSS555	Management Information System (MIS)
LSS556	Conservation and Preservation of Information Resources

Open Elective

LSE456	Reference/Information Sources
LSE506	Reference/Information Services

I SEMESTER

Hard Core

LSH401: FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE

Objectives:

- To introduce the students with the basics of library and information science.
- To identify the types of libraries and understand the functions, activities and services.
- To provide students an understanding about philosophies of library science, its basic principles, fundamental laws, guidelines and social impact.
- To understand the importance of library associations/organizations and their role in lifelong learning.
- To educate students about growth, development of libraries and library professional ethics.
- To train students for a professional career in Library and Information Services
- To understand the Library and Information Profession.

Course Outcome (CO):

- CO1 Gain clear understandings of LIS as professional education, its values and philosophies that govern the activities in the practicing world.
- CO2 Obtain proper understanding of functions and services of various types of libraries.
- CO3 Differentiate functions and activities between different types of libraries.
- CO4 Gain knowledge about library legislation, acts, IPR, and copyright.
- CO5 Understand the activities, roles and responsibilities of professional associations in LIS.
- CO6 Have the knowledge of public relations and library extension activities.
- CO7 Understand the basic philosophy and principles of LIS professionalism,

- Unit : Library as a Social Institution: Social and Historical foundations of Library; 08hrs
1 Different types of Libraries – features, functions and services. Role of libraries in social, cultural, educational and scientific technical development. Information Society: Data, information, and knowledge, concept, meaning and features. Evolution of information society.
- Unit : Five Laws of Library Science; Implications of Five Laws in Library and 08hrs
2 Information Activities.
- Unit : Library Development: Development of Libraries in India with special reference to 06hrs
3 Karnataka. National Knowledge Commission (NKC) and its role.
- Unit : Library Legislation – need, purpose and essential features; Library Legislation in 08hrs
4 India – problems and prospects; Overview of Public Library Acts in India. Detailed study of Karnataka Public Library Act 1965; Press and Registration Act and Delivery of Books (Public Libraries) and News paper Act, 1954 and 1956; Copyright Act and Intellectual Property Rights (IPR). Right to Information Act. Information technology Act 2000.
- Unit : Library and Information Profession: Attributes of a Profession; Librarianship as a 06hrs
5 Profession; Professional Ethics and Qualities; LIS Education and Research.

- Unit : Professional Associations: Professional Associations–Objectives and Functions; 08hrs
6 Role of Professional Associations in Library Development; National Library Associations-Objectives, Functions and Activities. ILA, IATLIS, IASLIC; International Library Associations–Objective, Functions and Activities IFLA, ALA, LA; Promoters of Library and Information Services, National level, RRRLF, International Level - UNESCO. State Library Association –KALA.
- Unit : Public Relations and Extension Activities: Concept, Definition and Scope; Facets 06hrs
7 and Programmes; Publicity and Extension, Outreach Activities; Library Path Finder’s (Guides).

References:

1. Ashburner, EH: Modern Public Libraries: their planing & designing, London, Grafton, 1948
2. Belkin, N: Information Concept for Information Science: Journal of Documentation. Vol. 34 (1) 1978 55-85
3. Kahan MS: Principles and prospective of copy right. New Delhi, Sarup and Sons, 1996
4. Khanna JK: Library and Society, Kurukshetra, Research Publication, 1987.
5. Paudey S.K. Sharma: Libraries and Society, ESS-ESS publication, New Delhi, 1987.
6. Dr. Jogesh Mistra, Alma Ramu & Sons: History of Libraries and in Librarianship in Modern India since 1850, Delhi, 1979.
7. Prof. A.A.N. Raju: Facets of Library and Information Science, ESS-ESS publication, New Delhi, 2012.
8. J.K. Khanna: Fundamentals of Library organization, ESS-ESS publication, New Delhi, 1984.
9. Shivram Varma: Foundation of Library & Information Science, Shree publishers & distributors, New Delhi, 2005.
10. Sanjay Kumar Singh: Historical foundations of library and information science, Anmol publication Pvt. Ltd., New Delhi, 2013.
11. S.R. Ranganathan: Library Manual, Asia publication, Bombay & Bangalore, 1954.
12. Anil K. Dhiman & Yashoda Rani: Learn Library and Society, ESS-ESS publication, New Delhi, 2005.
13. S.R. Ranganathan, Sharad Ranganathan Endowment: Five Laws of Ranganathan/Library Science, DRTC, Bangalore.
14. J.B. Sharma: Elements of library science, New Delhi, Kanishka publishers distributors, 1996.
15. Dr.(Mrs.) Sridevi and Miss. Shalini Vyas: Library and society, Shree publishers and distributors, 2005.
16. Rakeshkumar Shantilal Praiapati: Foundations of library and information science, New Delhi, Discovery publishing house Pvt. Ltd., 2013.
17. P.S.G. Kumar: A students manual of library and information science (on the lines of the NET syllabus of UGC), New Delhi, B.R. publishing, corporation, 2002. Volume -2.
18. C.P. Vashisnth and M.P. Satija ed.: Library and information profession in India, New Delhi, B.R. Publishing Corporation, 2004. Volume-1, Part-I.
19. Bhag watiben, Govindbhai Prajapathi: Library and information science, discovery publishing, New Delhi, 2013.
20. Krishan Kumar: Library Manual, New Delhi, 1982.
21. P.S.G. Kumar: Library Movement and libraries development in Karnataka, B.R. publishing corporation, New Delhi, 1946.

22. Venkatapaaih: Indian Library Legislation (Vol.1), Daya publishing house, Delhi, 1990.
23. K.A. Isaac: Library legislation in India, ESS-ESS publication, New Delhi, 2004.
24. K.S. Deshpande: University Library system in India, sterling publishers, New Delhi, 1985.
25. P.N. Mishra: Principles of library and information science, Alfa publication, New Delhi, 2010.
26. H.K. Srivastava: Foundation of Library and Information Science, Mohith publications, New Delhi, 2011.
27. Prasher, R.G.: Information and its communication, Medallion Press, Ludhiana, 2003.
28. Jagtar Singh: Information democracy and South Asia Promises and perils of the web, Medallion Press, Ludhiana, 2003.
29. Prasher, R.G.: Indian Libraries in IT Environment, Medallion Press, Ludhiana, 2003.
30. Khaisar M. Khan, Gopa Kumar V., Vishala B.K.: Proceedings of the National conference on 'Empowering Library Professional in Managing Digital Resources and Providing Extension Activities' Library and Information Centre, St. Agnes College Mangalore, 2010, ISBN: 978-81-0-98546-0-6.



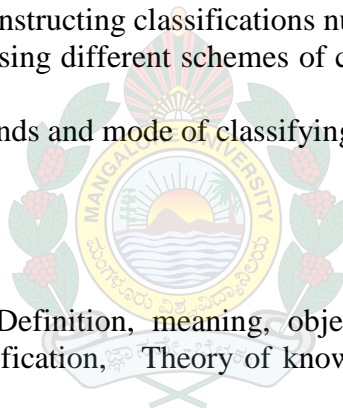
LSH402: INFORMATION PROCESSING: CLASSIFICATION

Objectives:

- To introduce the students with the library classification
- To understand the importance of library classification in organization of knowledge.
- To highlight the importance of canons in the design of classification schemes.
- To understand the fundamental categories.
- To understand the formation of subjects in the Universe of Subjects and be acquainted with major schemes of classification.
- To know the different schemes of classification.
- To develop skills of classification.

Course Outcome (CO):

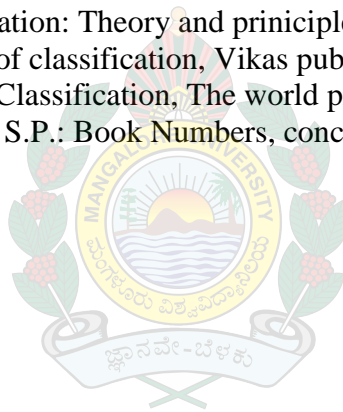
- CO1 Clear understanding the purpose, functions and principles of subject classification
- CO2 Knowledge of analyzing core thought content of modes of formation of subjects
- CO3 Clear understanding of criteria of classification of subjects.
- CO4 Knowledge of recognizing different fundamental categories.
- CO5 Gain the knowledge of constructing classifications numbers for different documents.
- CO6 Knowledge and skill of using different schemes of classification that can be used for the organizing the resources
- CO7 Understating of recent trends and mode of classifying e-resources.



Unit 1	: Library classification: Definition, meaning, objectives, purpose and functions. General theory of classification, Theory of knowledge classification, Theory of book classification	06hrs
Unit 2	: Universe of Knowledge: Structure, attributes, Modes of formation of subjects.	08hrs
Unit 3	: Postulational approach to classification: Planes of work and Canons of Classification	08hrs
Unit 4	: Fundamental categories: Facet analysis and facet sequence, Phase relations, Common Isolates.	08hrs
Unit 5	: Notational system: Meaning, need, functions and types, Call Number, mnemonics. Hospitality in array and chain, Devices.	08hrs
Unit 6	: Study of selected schemes of classification: Dewey Decimal Classification, Universal Decimal Classification, Colon Classification.	08hrs
Unit 7	: Classification of e-resources ; Trends in Classification	04hrs

References:

1. Krishna Kumar: Theory of Classification, Ed, 2. New Delhi, Vikas, 1980
2. Parkhi, RS : Library Classification: Evolution and Dynamic Theory, Bombay, Asia, 1960
3. Ranganathan SR: Colon Classification. Ed 6, Bombay, Asia, 1963
4. Ranganathan, SR: Prolegomena to Library Classification, Ed 2, London, Library Association, 1965.
5. Sehgal R.L.: Number Building in Dewey Decimal Classification Universal Decimal Classification & Colon Classification, ESS-ESS publication, New Delhi, 1993.
6. Bake Well K.G.B.: Classification and Indexing Practice, Clive Bingley & Linnet Books, London.
7. Ranganathan S.R. ed. Palmer B.I.: Sharada Ranganathan endowment for library science: Elements of library classification, Bangalore, 1991.
8. P.N.: A Practice on Colon Classification, Sterling publishers private limited, New Delhi.
9. Raju A.: Universal Decimal Classification, T.R. Publishers, 1991.
10. Krishan Kumar: Theory of classification, Vani educational books, New Delhi, 1985.
11. Sharma C.K. and Sharma Amit K.: Library classification, Atalantic publishers & Distributors, 2007.
12. Raju A.A.N: Decimal Universal & Colon Classification, Ajanta publication, 1984.
13. Pushpa: Library classification: Theory and principles, Wishwa prakashan, New Delhi.
14. Kumar Krishna: Theory of classification, Vikas publishing house, New Delhi, 1979.
15. Ohdedara A.K.: Library Classification, The world press Pvt., Ltd., Calcutta, 1973.
16. Satija M.P. and Agrawal S.P.: Book Numbers, concept publishing company, New Delhi.



LSH403: INFORMATION PROCESSING: CATALOGUING

Objectives:

- To be acquainted with the process of Library Cataloguing and metadata and its standards.
- To understand different catalogue codes and standards for bibliographic description.
- To practice cataloguing of different types of books.
- To understand the rules and practices of document description according to Anglo American Cataloguing Rules-2R.
- To study current trends in cataloguing.
- To develop skills of cataloguing.
- To study different subject headings.

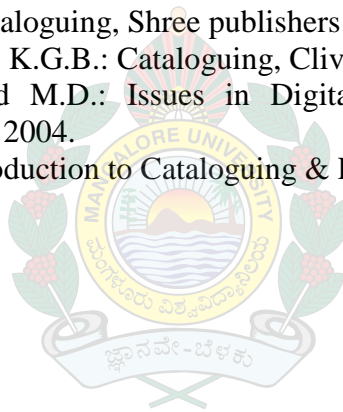
Course Outcome (CO):

- CO1 Clear understanding of purpose, functions and procedure of library cataloguing
- CO2 Understanding different laws and principles of library cataloguing
- CO3 Gain knowledge about subject cataloguing and use of subject thesaurus
- CO4 Knowledge of applying various cataloguing codes such as RDA, AACRS II, OPAC.
- CO5 Knowledge and skill of using different formats and standards that can be used for the cataloguing the resources
- CO6 Understanding of current trends in cataloguing
- CO7 Knowledge of Union, cooperative and centralized cataloguing
- CO8 Trained with use of different cataloguing standards and formats to catalogue the documents.

- Unit 1 : Library Catalogue-meaning, definition, need. Purpose and functions of library catalogue. 08hrs
Physical forms, Inner forms; Different kinds of entries
- Unit 2 : Normative Principles: Laws, Canons and Principles of Catalogue 08hrs
- Unit 3 : Subject Headings: Chain Procedure, Sears List of Subject Headings, Library of Congress Subject Headings 08hrs
- Unit 4 : Study of major Catalogue Codes; AACR (latest edition); RDA (Resource Description Access); Filing rules and procedures; Online Public Access Catalogue (OPAC) 08hrs
- Unit 5 : Standardization of Bibliographic Description- ISBD (M), ISBD(S), ISBD (NBM); Metadata-Definition and meaning, types and users. Metadata Standards; UNIMARC, CCF, MARC21, Dublin Core, Z39.50 and Web OPAC. 08hrs
- Unit 6 : Co- operative, Centralized and Union Cataloguing. 06hrs
- Unit 7 : Current trends in Cataloging. 04hrs

References:

1. Ranganathan SR : Cataloguing Practice, Ed 2, Bombay, Asia, 1964.
2. Ranganathan SR : Classified catalogue code with additional rules for Dictionary catalogue, Ed 5, Bombay, Asia, 1963.
3. Ranganathan SR : Library Catalogue: Fundamentals and Procedure, Madras, Library Association, 1950.
4. Viswanathan, CG : Cataloguing Theory and Practice, 1990.
5. Ranganathan S.R.: Cataloguing practice, Sharada Ranganathan Endowment for library science.
6. Dr. Janaki Raman C.: Online cataloging, Pacific books international, New Delhi, 2011.
7. Vishwanathan C.G.: Cataloguing: Theory and Practice, Print house, Lucknow, 1954.
8. Ranganathan S.R.: Classified catalogue code: with additional rules for dictionary catalogue code, associated by Neela Meghan A: Sharada Ranganathan endowment for library science, Bangalore.
9. Girija Kumar & Krishan Kumar: Theory of cataloguing, Vani educational books, New Delhi, 1975.
10. Krishan Kumar: An introduction to AACR-2, Vikash publishing house, 1986.
11. Khan M.T.M.: Anglo American Cataloguing Rules (AACR), Shree publishers & distributors, New Delhi, 2005.
12. Bidgut Mal: Practical cataloguing, Shree publishers & Distributors, New Delhi, 2005.
13. Eric J Junter & Bakewell K.G.B.: Cataloguing, Clive Bingley, London.
14. Mishra A.R. & Ahmad M.D.: Issues in Digital Cataloging, Shree Publishers & Distributors, New Delhi, 2004.
15. Krishna Kumar: An Introduction to Cataloguing & Practice.



LSH404: INFORMATION TECHNOLOGY – I

Objectives:

- To introduce the students with the basics of IT and related issues
- To train students in using Information Technology tools and techniques in information access, service, management and archival activities.
- To study data representation and file organization, programming languages.
- To understand Multimedia Technology, DTP and Graphics.
- To develop Information Technology skills.
- To understand the fundamentals of computers, its hardware and software.
- To be familiar with applications of Computers and Information Technology in libraries.

Course Outcome (CO):

- CO1 Understand the history and development of computers and information technology
- CO2 Knowledge of computer hardware and its peripherals devices.
- CO3 Clear understanding of the system and application software
- CO4 Gain knowledge of scripts and standards for data inputs
- CO5 Knowledge of machine and assembly languages.
- CO6 Gain knowledge of multimedia technology
- CO7 Knowledge of graphical user interface and desktop publishing

Unit 1	: Information Technology-Concept, Meaning and components; Computers: History and Development of Computers, Generations of Computers, Types of Computers.	06hrs
Unit 2	: Computer Hardware: Components of computers - Arithmetic/Logic Unit, Control Unit, Input Unit, Output Unit and Memory Unit.	06hrs
Unit 3	: Computer Software: Systems Software - Operating Systems - MS WINDOWS, Multi - User Operating Systems like Linux, Unix, Application Software – Word Processing (MS Word) MS Excel, MS Power point presentation.	08hrs
Unit 4	: Data Representation and File Organization: Binary code, Bit, Byte, Standards- ASCII, ISCII, UNICODE, File Organization.	08hrs
Unit 5	: Programming Languages: Machine Languages, Assembly Languages, High-Level languages, Generations of Programming Languages, Flow- Charting.	08hrs
Unit 6	: Multimedia Technology: Concept, scope, and developments, Hypertext and hypermedia, Hardware and Software Requirements, Animations – Dimensions, Tools.	08hrs
Unit 7	: DTP and Graphics	06hrs

References:

1. Davies, G B. Introduction to Computers. New York: McGraw- Hill, 1977
2. Donald H Sanders : Computer concepts and applications, McGraw Hill, 1987
3. Hunt R and Shelly J. Computer and Commonsense. New Delhi: Prentice, 1980
4. N Subramanian: Introduction to Computers, Tata McGraw-Hill
5. Rajaraman, V. Fundamentals of Computers.. New Delhi: Prentice- hall of India, 1981
6. Rowley, J. Computer Fundamentals: Concept, Systems and Applications Ed 2. New Delhi: BPB, 1992.
7. Paul Perry Multimedia developers guide. Sams publishing 1995.
8. P K Sinha: Computer Fundamentals. BPB Publication, 2000, ISBN :9788176567527
9. R Rajagopalan. Understanding Computers. Tata McGraw-Hill, 1987, 233p
10. Winn L Rosch : Multimedia bible Indianapolis, Sams publishing 1995
11. Tay Vaughan : Multimedia making it work, Osborne McGraw-Hill, 1998
12. Thomas C. Bartee : Digital Computer fundamentals Sixth Ed. McGraw Hill, 1991.
13. Prasher, R.G.: Indian Libraries in IT Environment, Medallion Press, Ludhiana, 2003.
14. Khaisar M. Khan, Mallaiah, Vishala B.K.: Proceedings of the National Conference on 'Democratization of Information using ICT: Role of Libraries for Social Enlightenment (DEMICT-2014), DLISc., Mangalagangothri, 2014, ISBN: 978-93-82845-33-1.



Soft Core

LSP405: INFORMATION PROCESSING: CLASSIFICATION – I (PRACTICE)

Objectives:

- Construction of Class Numbers for documents of different disciplines / subjects using Dewey decimal classification 23rd edition.
- Introduction to the use of the DDC
- Analysis of a work; direct approach; Main classes, Divisions and Sections
- Use of notes like “scope”, “Inclusion”, “Class here” “Optional provision” etc.
- Using synthetic features: Add from schedules
- Use of Table 1 ‘Standard Subdivisions’; Table 2 ‘Area’; Table 3 ‘Subdivisions of individual literature’; Table 4 ‘Subdivisions of individual languages’; Table 5 ‘Racial, Ethnic, National Groups’, and Table 6 ‘Languages’

Course Outcome (CO):

- CO1 Apply theoretical knowledge of classification into practice
- CO2 Get inducted to different classification systems and apply their skills to organize documents using specific classification schemes
- CO3 Knowledgeable and capable of using of specific scheme of classification at their workplace.
- CO4 Use it for number building.
- CO5 Gain the knowledge of constructing classifications numbers for different documents.
- CO6 Knowledgeable and capable of using DDC scheme of classification at their workplace.
- CO7 Understating of recent trends and mode of classifying e-resources

Classification of documents according to the latest edition of DDC.

64hrs

(Each student shall maintain practical records and submit the same at the time of practical examination).

LSP406: INFORMATION PROCESSING: CATALOGUING – I (PRACTICE)

Objectives:

- Preparing Catalogue Entries (Main, Added and Reference Entries) for Books (Monographs) using Anglo American Cataloguing Rules -2 revised edition and Assigning
- Subject Headings to all entries (Using at least one Standard Subject Heading)
- Single Personal Authorship; Joint Authorship; Works of more than three Authors
- Collaborative Works; Series; Multivolume Works; Pseudonymous Authors
- Composite Works
- Corporate Authorship: a) Government Publications b) Proceedings of Conferences, Seminars, Workshops, etc. c) Other Corporate Bodies: Organizations, Institutions, Societies, etc.
- Uniform Titles; Sacred Scripture; Anonymous Works

Course Outcome (CO):

- CO1 Apply theoretical knowledge of cataloguing into practice through hands-on training
- CO2 Allow students to obtain experience of classifying documents in physical/virtual libraries.
- CO3 Clear understanding of AACR II
- CO4 Knowledge of parts of descriptions of catalogue.
- CO5 Understanding the catalogue and their parts
- CO6 Get inducted to different descriptive elements and punctuations for cataloguing documents.
- CO7 Knowledgeable and capable of cataloguing different documents at their workplace.

Cataloguing of Simple, compound and composite documents and serials according to latest 64hrs edition of AACR/RDA (Each student shall maintain practical records and submit the same at the time of practical examination).

II SEMESTER

Hard Core

LSH451: MANAGEMENT OF LIBRARIES AND INFORMATION CENTRES-I

Objectives:

- To train the student in the techniques of librarianship and management of Library
- Understand the application of management theories in library and information area
- To study Organizational structure of library and information centers
- To understand Technical processing and preparation of documents for use.
- To familiarize students with maintenance, preservation and conservation of information resources
- To study record management concepts and issues.
- To study Library rules and regulations.

Course Outcome (CO):

- CO1 Familiarizing students to basic principles, practices, procedures to manage different types of libraries.
- CO2 Be able to understand concepts of management, functions, and principles scientific management.
- CO3 Gain the knowledge of organizational structure
- CO4 Have knowledge of selection and acquisition of books and other documents
- CO5 Have knowledge of transitions / circulation of documents
- CO6 Able to understand the art of maintenance and preservation of documents.
- CO7 Experience the application of management theories in library management, organization or administration
- CO8 Able to apply their knowledge to information acquisition, processing and retrieval at workplace.

- Unit 1 : Management Concept, definition and scope, Management styles and approaches, Principles and functions of management, Principles of Scientific Management. 08hrs
- Unit 2 : Organizational structure: Principles of Organizational structure, Organizational structure of Library and Information Centres 08hrs
- Unit 3 : Collection development: Types of documents and selection and acquisition: Tools, Procedures and Policies, Problems of Collection development 08hrs
- Unit 4 : Technical Processing and Preparation of documents for use: shelving, Circulation work, Methods of book circulation- charging and discharging systems. 06hrs
- Unit 5 : Maintenance, Preservation and Conservation of Information Resources- procedure policies and techniques, stock verification, Binding and weeding out 08hrs
- Unit 6 : Library committee, Library statistics, Annual reports: Compilation, Contents and style, Library rules and regulations. 08hrs
- Unit 7 : Records Management Concepts and Issues. 04hrs

References:

1. Application of Management Technique to Library and Information Systems, 12th IASLIC Conference, Roorkee, 1979
2. Chatterjee, AK: Introduction to Management: Its Principles and Techniques, Kolkatta, World Press.
3. Davar, RS: The Management process, 1982
4. Jones, N & Jordan, P: Staff Management in Library and Information work, 1982.
5. Katz, WA: Collection Development: Selection of Materials for libraries, New York, HRW, 1980
6. Krishna Kumar: Library Administration and Management, Delhi, Vikas, 1987
7. Mittal RL: Library Administration: theory and Practice, Ed 4 , Delhi, Metropolitan ,1984
8. Sharma JK: Personnel Management in Libraries, 1981.
9. Philip D. Leighton and David C. Weber, Keyes D. Metcalf ed: Planning academic and research library buildings, ESS-ESS publication, New Delhi, 2010.
10. Ramansu Lahiri: Management of libraries concepts and practices, ESS-ESS publication, New Delhi, 1996.
11. S.P. Singh ed: Library Administration and Resources, Omega publications, New Delhi, 2009.
12. Dr. Subodh Gopal Nandi: Library Management: Recent thoughts and development, Kaveri Books, 2011.
13. Rakesh Kumar Shantila Praiapati: Theories and practices of library management, Discovery publishing house, Pvt. Ltd, 2013.
14. B.S. Panwar and S.D. Vyas: Library Management, B.R. publishing corporation, New Delhi, 1986.
15. Ms. Kalpana Das Gupta ed: Library practice for effective management, Indian Library Association, New Delhi, 2001.
16. Khaisar M. Khan, Mallaiah, Vishala B.K.: Proceedings of the National Conference on 'Democratization of Information using ICT: Role of Libraries for Social Enlightenment (DEMICT-2014), DLISc., Mangalagangothri, 2014, ISBN: 978-93-82845-33-1.

LSH452: INFORMATION TECHNOLOGY – II

Objectives:

- To introduce the students with the library automation and related issues.
- To study Library Software Packages
- To familiarize students with library automation
- To understand infrastructure requirements for library automation-hardware, software and skilled manpower
- To understand current trends in Information Technology
- To study information technology application to Library and Information work
- To study retrospective conversion of documents.

Course Outcome (CO):

- CO1 Able to understand basic concept of library automation; need, areas, and strategies for library automation.
- CO2 Able to understand the infrastructure requirements like hardware, software, and skilled manpower for implementing automation in libraries
- CO3 Gain the knowledge and its features and functions of housekeeping tools like acquisitions, cataloging and also knowledge of their file and data structures of library automation.
- CO4 Knowledge of housekeeping operators of circulation, serials control, OPAC and Web OPAC.
- CO5 Know the process, strategies and techniques of retrospective conversion of records.
- CO6 Hands on experience of library automation software packages like SOUL, Libsys, KOHA, NewGenLib, and e-Granthalaya.
- CO7 Knowledge of current trends in IT and its application to library and information work.

- Unit 1 : Library Automation: Meaning and Definition, Need, Areas of Library Automation, Strategies for Library Automation. 08hrs
- Unit 2 : Infrastructure Requirements for library automation- Hardware, Software, Humanware. 06hrs
- Unit 3 : Automations of Housekeeping features- Acquisitions, cataloging, file and data structures. 08hrs
- Unit 4 : Automation of Housekeeping operators: Circulation and Serials Control, file and data structures, OPAC, Web OPAC. 08hrs
- Unit 5 : Retrospective conversion of records: Meaning Retrospective Conversion Process, Strategies and Techniques. 06hrs
- Unit 6 : Library Software Packages – Proprietary– SOUL, Libsys, Open Source Software – KOHA, NewGenLib, e-Granthalaya, Evaluation of Library Automation Software. 08hrs
- Unit 7 : Current Trends in Information Technology and Application to Library and Information work 06hrs

Reference:

1. Brown, K R : Challenge of Information Technology. 1983.
2. Burns, A : New Information Technology. 1984.
3. Edmunda, R A : Prentice Hall Encyclopedia of Information Technology, Essential Guide dBase plus in Libraries. 1988.
4. Ffaruqui Khalid Kamal : Automation in Libraries. New Delhi, Anmol, 1997.
5. Faruthi, S N Ed. : Library Techniques and Technologies Perspectives in Multimedia Library Development. New Delhi, Kanishka, 1997.
6. Gupta, Sangita : Manpower Needs of Automated Libraries. New Delhi, Ess Ess Publications, 1995.
7. John M Cohn et al Planning for library automation: A practical handbook. London Library Association.
8. Kent, A and Galvin, T J Ed.: Information Technology: critical Choice for library Decision Makers. 1992.
9. Madras Library Automation. MLA, 1992
10. Menon, V V and Prasad, H N Ed.: Information Technology and National Development. Agra, Y K Publishers, 1994/
11. Michael D Cooper. Design of library automation systems: File structures, Data structures and tools John Wiley, 1996.
12. Moorthy, A L : Information Technology applications in academic Libraries in India with emphasis on networking services and information sharing, Ahmedabad, INFLIBNET, 1997.
13. Ojha, D C, Edd. : Computer Applications in Library and Information Science. Jodhapur, Scientific Publication, 1995.
14. Parthasarathy, S : Computer application to Libraries, IR and Networking. Bangalore, Sarada Ranganathan Endowment for library science, 1986.
15. Satyanarayana, R : Information Technology and its facts. New Delhi, Manak, 1998.
16. V.S. Subrahmanian Principles of multimedia database systems. Morgan Kaufman, 1998.
17. Zokoczy, P : Information Technology, : An Introduction. Ed.2 1985.
18. Prasher, R.G.: Indian Libraries in IT Environment, Medallion Press, Ludhiana, 2003.
19. Khaisar M. Khan, Mallaiah, Vishala B.K.: Proceedings of the National Conference on 'Democratization of Information using ICT: Role of Libraries for Social Enlightenment (DEMICT-2014), DLISc., Mangalagangothri, 2014, ISBN: 978-93-82845-33-1.

LSP453: INFORMATION PROCESSING: CLASSIFICATION - II (PRACTICE)

Objectives:

- Construction of Class Numbers for documents of different disciplines / subjects using Universal Decimal Classification
- Introduction to the use of the UDC
- To familiarize students with UDC
- To understand basic features and syntax of UDC
- To understand organization of classes of UDC
- To construct of class numbers using UDC
- To familiarize common auxiliary tables
- To understand connecting signs of UDC

Course Outcome (CO):

- CO1 Apply theoretical knowledge of classification into practice
- CO2 Knowledge of using the analyzing core thought content of modes of formation of subjects
- CO3 Assess the suitability of UDC as a scheme of classification for arranging library materials
- CO4 Gain the knowledge of constructing classifications numbers for different documents.
- CO5 Understanding of recent trends and mode of classifying e-resources.
- CO6 Knowledgeable and capable of using UDC scheme of classification at their workplace.
- CO7 Understand with reference to its structure, notation, auxiliaries, synthetic devices and alphabetical index.

Classification of Books and other documents according to the latest edition of UDC
(Each Student shall maintain practical record and submit the same at the time of practical examination)

64hrs

LSP454: INFORMATION TECHNOLOGY – I (PRACTICE)

Objectives:

- To train students in using Information Technology tools and techniques
- To train the students with the library automation and related issues.
- To provide basic knowledge of computer and its application in managing various activities of library system.
- To familiarize students with library automation, and retrieval process.
- To familiarize students with Integrated Library System software (ILS)
- To study Operation of computers and connecting the various components
- To provide hands on experience with Integrated Library System software (ILS)

Course Outcome (CO):

- CO1 Able to understand and work on experience with IT products and services
- CO2 Have the knowledge of working with computers hardware, software and CLI and GUI operating systems.
- CO3 Gain the knowledge of word processing and power point presentation application.
- CO4 Knowledge of spread sheet tools especially MS excel used for analysis and graphical representation of data.
- CO5 Be trained to work with library automation and management tools of SOUL and KOHA
- CO6 Overall knowledge of library automation and its operations parts using different types of software.
- CO7 Gain knowledge of both system software and application software related to library automation and management.

Unit 1	: Command line operating systems UNIX	09 hrs
Unit 2	: GUI based operating systems – Windows, Linux.	09 hrs
Unit 3	: MS –Word	09 hrs
Unit 4	: MS-Excel	09 hrs
Unit 5	: MS-PowerPoint	09 hrs
Unit 6	: SOUL	09 hrs
Unit 7	: KOHA	09 hrs

Soft Core

LSS455: INFORMATION SOURCES AND SERVICES

Objectives:

- To understand the concept of information sources.
- To study documentary and non-documentary sources of information.
- To familiarize students with Print and Electronic versions of information sources
- To understand the Primary, secondary and tertiary information sources.
- To know the library and information services in academic libraries.
- To study various aspects of information sources.
- To train students in handling information resources.

Course Outcome (CO):

- CO1 Understand the basic concept, importance, characteristics, functions, and evolutions of both print and non-print sources of information.
- CO2 Gain the knowledge of primary, secondary and tertiary sources of information
- CO3 Know the categories of information like documentary and non – documentary sources as well as the human and institutional sources of both print sources and e-resources.
- CO4 Clearly understand the major print and electronic resources related to primary sources of information.
- CO5 Understand the important secondary sources of both print & electronic versions information sources.
- CO6 Trace the relevant tertiary sources of both print & electronic sources of information.
- CO7 Know the different non-documentary sources of human and institutional sources of information

- Unit 1 : Information Sources: Meaning, Definition, importance, Characteristics, Functions, **06hrs**
evolutions -both print and non-print.
- Unit 2 : Types of Information Sources: Primary, Secondary and Tertiary sources of information; **08hrs**
Documentary Sources and Non –Documentary Sources, Human and Institutional sources; Non–print and Electronic sources.
- Unit 3 : Primary Sources (Print and Electronic Versions): Periodicals, Technical reports, **08hrs**
Patents, Standards and Specifications, Theses and Dissertations, Conference and Seminar proceedings, Trade literature.
- Unit 4 : Secondary Sources (Print and Electronic Versions): Dictionaries, Encyclopedias, **08hrs**
Yearbooks and Almanacs, Biographical sources, Bibliographies, Geographical sources, Current sources, Statistical, information sources, Handbooks and Manuals.
- Unit 5 : Tertiary Sources (Print and Electronic Versions): Directories, Guides to reference **06hrs**
sources, Bibliography of bibliographies, Monographs, Union catalogues, Textbooks.

Unit 6 : Non documentary Sources and their Electronic Versions: Human Sources: **08hrs**
Technological gatekeepers, invisible colleges, consultants, experts/resource persons, personal home pages, representatives of firms, and others; Institutional / Organisational Sources: Government ministries and departments, R& D organizations, learned societies, publishing houses, archives, data banks, information analysis centers, referral centers, Institutional web sites. Current Trends in Information Sources: CD-ROM, Internet resources, Discussion Forums and Information Gateways.

Unit 7 : Library and Information Services in Academic Libraries: Reference Service/Referral; **06hrs**
Library Use and Information Literacy; Documentation and Information Services – National and International; Current Awareness and SDI Service; Abstracting and Indexing Services; Information Product Development Services; Document Delivery Services

References:

1. Davinson Donald: Reference Service, London Clive Bingley, 1980
2. Katz, WA : Introduction to Reference work ,Ed5, New York Mc-Graw Hill, 1974
3. Parker , CC & Purely: Information sources in science and Technology ,Ed.2. 1986
4. Ranganathan, S R : Reference Service, Ed2 . Bangalore, Sharada Ranganathan
5. Endowment, for Library Science, 1992
6. Sewa Sing: International Manual of Reference and Information Sources, New Delhi, Beacon Books, 1997
7. Sharma, JS & Grover, DR : Reference Service and Sources, Chicago ALA 1992.
8. Chenny F.N and Williams W.J: Fundamental reference sources. Ed2., Chicago, ALA, 1980.
9. Fjallbrant N and Stevenson M.: User education in libraries, London, Clive-Bingley, 1978.
10. Gale Group: Information industry association. Information sources, The association, 1988, pp300.
11. Grogan D.J.: Science and technology: An introduction to the literature. Ed4. London: Clive-Bingley, 1982.
12. Katz, W.A.: Introduction to reference work, New York, McGraw-Hill, 1992.
13. Krishankumar: Reference service Rev Ed3., New Delhi, Vikas, 1987.
14. Lambart J and others: How to find information in Science and technology, London, Library association, 1991.
15. Rogers R.: Teaching information skills: A review of the research and its impact on education, London, Bowker-saur, 1993.
16. Sharma J.S. and Grower D.: Reference service and sources of information, New Delhi, ESS, 1987.
17. Shores Louis: Basic reference sources, Chicago, ALA, 1959.
18. Subramanyam K: Scientific and technical information resources, New York, Marcel Dekker, 1981.
19. Prasher, R.G.: Information and its communication, Medallion Press, Ludhiana, 2003.
20. Jagtar Singh: Information democracy and South Asia Promises and perils of the web, Medallion Press, Ludhiana, 2003.
21. Prasher, R.G.: Indian Libraries in IT Environment, Medallion Press, Ludhiana, 2003.

Open Elective

LSE456: REFERENCE/INFORMATION SOURCES

Objectives

- To familiarize students with the meaning, definition, use and implications of Information Sources
- To study the primary, secondary tertiary sources of information sources
- To understand the electronic information sources
- To study human sources of information
- To know the current trends in information sources
- To study various aspects of information sources.
- To train students in handling information resources.

Course Outcome (CO):

- CO1 Understand the concept, types and importance of information / reference sources.
- CO2 Clearly understand the major information resources related to primary sources of information.
- CO3 Understand the important secondary sources of information like dictionaries, encyclopedias, handbooks and manuals, etc.
- CO4 Understand the relevant tertiary sources of information like directory of directories, bibliography of bibliographies, union catalogues, guides to subject literature, and evaluation of both print and electronic information source.
- CO5 Know the different non-documentary sources like human and institutional sources of information.
- CO6 Understand the concept, types of e-journals, e-books, e-theses, e-newspapers, blogs and wikis. Online Dictionaries and Encyclopedias of e-resources.
- CO7 Clearly understand the current trends in Information Sources different types of library and information services especially in academic libraries

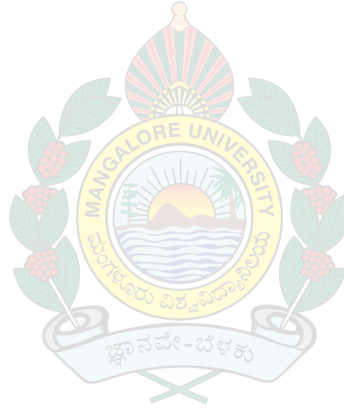
- Unit 1 : Reference Sources: Meaning, Definitions and types; Information Services: Meaning, definition and Importance. Types of information services. **06hrs**
- Unit 2 : Primary Sources: Periodicals, Conference Proceedings, Technical Reports, Patents, Standards and Specifications, Trade Literature, Theses and Dissertations, Reprints, Preprints and Monographs. **06hrs**
- Unit 3 : Secondary Sources: Dictionaries, Encyclopedias, Handbooks and Manuals, Style Manuals, Bibliographies, Geographical Sources, Biographical Sources, Yearbooks, Almanacs, Directories, Library catalogues, Union Catalogues, Statistical sources, Abstracting and Indexing sources in different disciplines. **12hrs**
- Unit 4 : Tertiary Sources: Directory of Directories, Bibliography of Bibliographies, Union Catalogues, Guides to Subject Literature. Evaluation of Information sources: Print and Electronic **06hrs**

- Unit 5 : Non-documentary Sources: **08hrs**
- a) Human Sources – Consultants, Experts, Extension Workers, Technology gatekeepers, Invisible Colleges, Information Brokers;
 - b) Institutional Sources – National and International agencies, Govt. Departments, R&D Organizations, Academic Institutions
- Unit 6 : Electronic Information Resources: Meaning and Definitions, Types – E-journals, E-books, E-theses, E-newspapers, Blogs and Wikis. Online Dictionaries and Encyclopedias: Free and Proprietary. **08hrs**
- Unit 7 : Current Trends in Information Sources: CD-ROM, Internet resources, Discussion Forums and Information Gateways. Information Search-types, On-line searching, search techniques. **04hrs**

References:

1. Grogan, Denis: Science and Technology, Ed.4. London, Clive Bingley, 1982
2. Guha, B: Documentation and Information Services: Techniques and Systems. Rev. Ed.2. Calcutta, World Press, 1983
3. Hanson, CW: Introduction to science information work. London, ASLIB, 1973
4. Higgins, Gavin: Printed reference materials. London, Library Association, 1980
5. Katz WA: Introduction to Reference work. Ed. 5. Vo1.2 New York, Mc-Graw Hill, 1989
6. Krishna Kumar: Reference service. Rev. Ed. 3. New Delhi, Vikas, 1987
7. Lea, Peter W: Printed Reference Materials. Ed.3 London, Library Association, 1990
8. Lea, Peter Wand Day, Alan: Reference Sources Handbook. Ed 4. London, Library Association, 1996.
9. Parker, C.C. and Purely: Information Sources in Science and Technology. Ed. 2. 1986
10. Ranganathan, SR: Reference Service Ed 2. Bangalore, Sarada Rangnathan Endowment for Library Science, 1992.
11. Sewa Singh: Handbook of Reference and Information Services. New Delhi, Crest Publishing house, 1997
12. Sewa Singh: International manual of Reference and information services. Delhi, Beacon Book, 1997
13. Sharma, JS and Grover, DR: Reference service and sources of Information. New Delhi, Ess Ess publications, 1992
14. Subramanyam, K: Scientific and Technical Information Resources. New York, Marcel Dekkar, 1981.
15. Alan P., Gwyneth T. and Goff S.(1999). The Library and Information Professional's Guide to the World Wide Web. London : Facet Publishing.
16. Chowdhry, G. G. and Sudatta Chowdhury(2001). Searching CD-ROM and Online Information Sources. London : Facet Publishing.
17. Chowdhury, G. G. and Sudatta Chowdhury(2001). Information Sources and Searching on the World Wide Web. London: Facet Publishing.
18. Gopinath, M.A.(1984). Information Sources and Communication Media. Bangalore : DRTC.
19. Grogan, Dennis. (1984).Science & Technology: An introduction to literature, London: Clive Bingley.
20. Katz, W.A. (2000). Introduction to reference work, London: Butterworths. 2V.
21. Krishna Kumar (2003). Reference service, Ed.3, New Delhi: Vikas.
22. Kumar (PSG). Ed.(2001). Indian encyclopedia of Library and Information Science. New Delhi :S. Chand & Co.
23. Rao, I.K.R(2001). Electronic sources of Information. Bangalore: DRTC.s
24. Sewasingh (2001). Hand book of international sources on reference and Information. New Delhi: Crest Publication.
25. Sharma, J.S & Grover, D.R (1998). Reference service and sources of Information. New Delhi:ESS ESS.

26. Subramanayam, K. (1981). Scientific and technical Information resources. New York : Marcel Dekkar.
27. Walford, A.J. (1990). Guide to reference materials, London: Library Association, 3V.
28. <http://www.Libraryspot.com>
29. <http://www.refdesk.com>
30. <http://www.infolibrarian.com>



III SEMESTER

Hard Core

LSH501: INFORMATION RETRIEVAL

Objectives:

- To study various methods and techniques of Information Retrieval and search strategies
- To understand the perspectives and significance of Information retrieval in the present context.
- To develop skill in information processing, organization and retrieval.
- To familiarize students with information retrieval techniques
- To study Bibliographic description
- To understand indexing concepts, theories, methods and importance
- To familiarize students with current trends in information retrieval

Course Outcome (CO):

- CO1 Understand the objectives, components and functions of information processing and retrieval systems
- CO2 Gain the knowledge of information search; search techniques; search strategies; and other search formations.
- CO3 Clear understand the concepts, theories, methods and importance indexing languages, thesauri and different subject headings
- CO5 Understand the different kinds indexing systems like Pre-Coordinate and Post coordinate, PRECIS, Chain Indexing, POPSI, KWIC, UNITERM Indexing, Citation indexing etc.
- CO6 Clear understanding the evaluation of Indexing Systems and criteria for evaluation of ASLIB, MEDLARS, STAIRS, SMART, TREC, etc.
- CO7 Knowledge of bibliographic description standards and format of ISBD, MARC 21, ISO 2709 and CCF.

- Unit 1 : Information Processing and Retrieval: Basic concepts, meaning and definition, Retrieval Process: objectives, components and functions of IRS. **08hrs**
- Unit 2 : Information search: objectives of information search, search techniques, information search strategies, pre search interview, search logic. **06hrs**
- Unit 3 : Indexing: Concepts, theories, methods and importance. Indexing languages: Vocabulary control, semantics and syntactics. Thesauri and Subject Headings – Design and construction **08hrs**
- Unit 4 : Indexing Systems: Pre-Coordinate and Post coordinate. PRECIS, Chain Indexing, POPSI, KWIC, UNITERM Indexing, Citation indexing. **06hrs**
- Unit 5 : Evaluation of Indexing Systems criteria for evaluation: Recall and Precision, Coverage and Currency, ASLIB, MEDLARS, STAIRS, SMART, TREC, Evaluation studies. **08hrs**

- Unit 6 : Bibliographic Description: Concept, Historical Development, Standards for Bibliographic record format- ISBD, MARC 21, ISO 2709 and CCF, International Bibliographical Control, Universal Bibliographical Control, Role of International Organizations, Standards and Cooperation. **08hrs**
- Unit 7 : Trends in information retrieval-development, search and retrieval, full text retrieval user information. **06hrs**

References:

1. A course in Information consolidation: a handbook for education and training in analysis, synthesis and repackaging of Information. General Information Programme and UNISIST, UNESCO, PGI, Paris. 1986.
2. Alberico, R. and Micco M.(1990). Expert systems for reference and Information retrieval. West Port : Meckler.
3. Atchison, J. & Alan G. A.(1972). Thesaurus construction: a practical manual. London: Aslib.
4. Atchison, J. & Gilchrist, A.(1972). Thesaurus construction: a practical manual. London: Aslib.
5. Austin, D.(1984). PRECIS: A manual of concept analysis and subject Indexing. 2nded.
6. Chowdhruy, G.G.(2003). Introduction to modern Information retrieval. 2nd Ed. London, Facet Publishing.
7. Cleaveland, D. B.(2001). Introduction to Indexing and abstracting. 3rd Ed. Englewood, Colo. : Libraries Unlimited
8. Crawford, M. J.(1988). Information broking: a new career in Information work.London: LA.
9. Ford, N.(1991). Expert systems and artificial intelligence : An Information manager's guide. London : LA.
10. Ghosh, S.B. and Biswas, S.C. (1998). Subject Indexing systems: Concepts, methods and techniques. Rev. ed. Calcutta: IASLIC.
11. Lancaster, F. W. (1968). Information retrieval systems, characteristics, testing and evaluation. London: Facet Publishing.
12. Lancaster, F.W.(2003).Indexing and Abstracting in Theory and Practice. London: Facet Publishing.
13. Pandey, S.K. Ed.(2000).Library Information retrieval. New Delhi: Anmol.
14. Seetharama, S. (1997).Information consolidation and repackaging. New Delhi: ESS ESS.
15. Van, R.C. J.(1970). Information retrieval. 2nd ed. London: Butterworths.
16. Vickery, B.C.(1970). Techniques of Information retrieval. London: Butterworths

LSH502: MANAGEMENT OF LIBRARIES AND INFORMATION CENTRES-II

Objectives:

- To create understanding about Human Resource Management
- To understand the budgeting techniques
- To familiarize students with marketing of Information products and services
- To understand public and human relations in library management
- library building, furniture and equipments
- To understand Performance evaluation of librarian and information centers and services
- To study Financial management of libraries

Course Outcome (CO):

- CO1 Able to understanding the planning of library and information centres and its different kinds and steps.
- CO2 Able to know the value of HRM; able to understanding the motivation, training, analysis, specification, selection, and recruitment of job.
- CO3 Familiar with the financial management and different type and techniques of budget.
- CO4 Able to understand the planning, design and maintenance library building, furniture and equipment.
- CO5 Familiar with management tools and techniques for assessment LICs and their services; and also able to understanding the TQM, PERT, CPM, and SWOT analysis.
- CO6 Able to understand application of marketing and public relations concepts to library services.
- CO7 Familiar with the public and human relations in library management.

- Unit 1 : Planning of Library and Information Centres, Planning: Macro Planning and Micro Planning. Steps in planning Library and Information Centres. **08hrs**
- Unit 2 : Human Resource Management: Personnel management in LIC: job Analysis: Job Description, and job specification, Selection and recruitment, Procedures and methods, Motivation, Training and Development, performance appraisal, Qualities of Librarians. **08hrs**
- Unit 3 : Financial Management: Sources of Finance, Resource mobilization Budget, Types of Budget, Budgeting Techniques, PPBS. Zero based budgeting, Budgeting control, cost benefit analysis. **08hrs**
- Unit 4 : Library Building, Furniture and Equipment: planning, Design and Maintenance. **06hrs**
- Unit 5 : Performance evaluation of Librarian and Information Centres and Services: Management tools and Techniques for Assessment Library and information centres and their services: Total Quality Management (TQM), Programme Evaluation Reviewing Technique (PERT), Critical Path Method (CPM), Strength Weaknesses Opportunities and Threat (SWOT) analysis. **08hrs**
- Unit 6 : Marketing of Information products and services: Meaning, Definition, Need, Market segmentation, Positioning, Market Mix, 4P's - Product, Price, Place, Promotion, Marketing Audit, Role of Librarian in Marketing of LIS. **08hrs**
- Unit 7 : Public and Human Relations in Library Management. **04hrs**

References:

1. Application of Management Technique to Library and Information Systems, 12th IASLIC Conference, Roorkee, 1979
2. Chatterjee, AK: Introduction to Management: Its Principles and Techniques, Kolkatta, World Press.
3. Davar, RS: The Management process, 1982
4. Jones, N & Jordan, P: Staff Management in Library and Information work, 1982.
5. Katz, WA: Collection Development: Selection of Materials for libraries, New York, HRW, 1980
6. Krishna Kumar: Library Administration and Management, Delhi, Vikas, 1987
7. Mittal RL: Library Administration: theory and Practice, Ed 4 , Delhi, Metropolitan ,1984
8. Sharma JK: Personnel Management in Libraries,1981.
9. S.K. Mookerjee and Songupta B.: Library organization and Library Administration system.
10. Mukesh K. Sahu: Library Management New Trends, Shree publishers and distributors, New Delhi, 2008.
11. S.K. Singh: Essentials of integrated library management, authors press, New Delhi, 2002.
12. Dr. Roshan Rain: TQM in Library and information services, New Delhi, 1999.
13. Harold Chester Young: Planning, Programming, Budgeting Systems in academic libraries (PPBS), Gale Research Company, Michigan, 1974.
14. Krishna Kumar: Library Administration and Management Vikas publishing, New Delhi, 1987.
15. Anil Dhimani and YoshodaDhimani: Library Management, ESS-ESS.
16. Philip D. Leighton and David C. Webar – 3rd ed., Keyes D. Metcally ed.: Planning Academic and research library buildings, ESS ESS publication, 2010.
17. RamansuLahiri: Management of Libraries Concepts and practices, ESS ESS publication, New Delhi, 1996.
18. S.P. Singh ed.: Library Administration and Resources, Omega publications, New Delhi, 2009.
19. Dr. SubodhGopal Nandi: Library Management: Recent thoughts and development, New Delhi, Kaveri Books, 2011.
20. Rakesh Kumar ShantilaPraiapati: Theories and practices of library Management, Discovery publishing House, Pvt. Ltd., New Delhi, 2013.
21. B.S. Panwar and S.D. Vyas: Library Management, New Delhi, B.R. Publishing Corporation, 1986.
22. Ms. Kalpana Das Gupta ed.: Library Practices for effective management, Indian Library Association, New Delhi, 2001.
23. Khaisar M. Khan, Mallaiah, Vishala B.K.: Proceedings of the National Conference on 'Democratization of Information using ICT: Role of Libraries for Social Enlightenment (DEMICT-2014), DLISc., Mangalagangothri, 2014, ISBN: 978-93-82845-33-1.

LSH503: RESEARCH METHODS IN LIBRARIANSHIP

Objectives:

- To familiarize students with concepts and types of research
- To study research design
- To know the research techniques and tools
- To understand the research methods and process
- To familiarize students with the fundamentals of Bibliometrics, Scientometrics, Informetrics and Webometrics
- To understand data analysis and interpretation
- To develop the skills of report writing

Course Outcome (CO):

- CO1 Familiar with theory and practice of research and its methodology.
- CO2 Familiar with identifying research problems and doing subject literature research.
- CO3 Aware of developing research design, sample size and research instrument for data collection.
- CO4 Understanding the mode of data collection and data analysis
- CO5 Knowing on using statistical tools and techniques for data analysis and interpretation of research findings
- CO6 Aware of methods of presenting and reporting research findings.
- CO7 Knowing fundamentals of Bibliometrics, Scientometrics, Informetrics and Webometrics

- Unit 1 : Research: Concept, Meaning, Need and Process of Research; Types of Research – **08hrs**
Fundamental and Applied including inter disciplinary and multidisciplinary approach;
Role of Research in the Development of Scholarship. Ethics in research. Areas of
research in LIS.
- Unit 2 : Research Design: Conceptualization and Operationlisation; Types of Research Design; **08hrs**
Identification and Formulation of problem; Hypotheses; Nominal and Operational
Definition; Designing Research Proposal; Ethical aspects of Research; Literature search
– print, non-print and electronic sources.
- Unit 3 : Research Methods: Scientific Method; Historical Method; Descriptive Method; Survey **06hrs**
Method and Case Study Method; Experimental Method and Delphi Method.
- Unit 4 : Research Techniques and Tools: Questionnaire; Schedule; Interview; Observation; **06hrs**
Scales and check lists; Library and Record and Reports; Sampling Techniques.
- Unit 5 : Data Analysis and Interpretation: Descriptive Statistics – Measure of Central **08hrs**
Tendency; Co-relation, Mean, Mode, Median, Tabulation and Generalization;
Measures of dispersion, Variance and covariance, Standard Deviation; Graphical
presentation of data – Bar, pie, line-graphs, Histograms; Regression – linear and non-
linear; Chi Square Test; Sociometry; Statistical Packages – SPSS and its variations.

- Unit 6 : Bibliometrics, Scientometrics, and Informetrics: Concept and Definition; Bibliometric Laws: Bradford's, Zipf's, Lotka's; Bibliographic Coupling; Obsolescence; Citation Analysis; Citation Studies; Informetrics; Scientometrics, Webometrics. **08hrs**
- Unit 7 : Research Reporting: Structure and components, Style, Contents; Guidelines of Research Reports; Style Manual – Chicago – MLA-APA; E-Citation and Methods of Research Evaluation. **06hrs**

References:

1. Busha, CH & Harter, SP: Research Methods in Librarianship: Techniques and Interpretation, New York Academic 1980.
2. Mohsin , SM: Research Methods in behavioural Sciences ,Kolkatta Orient Longman, 1984.
3. Sharma , RN & Sharma, RK: Research methods in Social Sciences, Bombay, Media Promoters & Publishers Pvt. Ltd., 1987.
4. Sing, Sadhu: Research Methodology in Social Sciences, Bombay, Himalaya Publishing House, 1980.
5. Stevens , RE . Ed: Research Methods in Librarianship, London, Bingley 1971.
6. Wilson , EB: Introduction to scientific Research , New Delhi, Mc- Graw Hill, 1952.
7. Young, PV: Scientific Social Surveys and research, Ed 4, New Delhi, Prentice Hall, 1982.
8. Charles, H. et.al.: Research methods in librarianship: Techniques and interpretations, New Delhi: Sage, 1993.
9. Fowler, F.J.: Survey research methods. New Delhi: Sage, 1993.
10. Goode, W.J. and Hatt, P.K.: Methods in social Science research. New Delhi: McGraw Hill, 1986.
11. Krishan Kumar: Research methods in Library and Information Science. New Delhi: Vikas,1992.
12. Krishnaswami, O.R.: Methodology of Research in Social Sciences. Bombay, Himalaya, 1993.
13. Leddy, P. D.: Practical research: Planning design. London: Clive-Bingley, 1980.
14. Line, M.B.: Library surveys, London: Clive Bingley, 1967.
15. Nicholas D. and Ritchil, M.: Literature and bibliometrics. London: Clive Bingley, 1979.
16. RavichandraRao, I.K.: Quantitative methods for Library and Information Science. New Delhi: Wiley Eastern, 1985.
17. Slater, M.: Research methods in Library and Information studies. London: L.A., 1990.

Soft Core

LSP504: INFORMATION PROCESSING: CATALOGUING -II (PRACTICE)

Objectives:

- Preparing Catalogue Entries (Main, Added and Reference Entries) for Non-Book Materials using Anglo American Cataloguing Rules -2 revised edition. Assigning Subject Headings (Using at least one Standard Subject Heading)
 - o Cartographic Materials
 - o Manuscripts
 - o Graphic Materials
 - o Printed Music
 - o Sound Recordings
 - o Motion Pictures & Video Recordings
 - o Micro Forms
 - o Electronic Resources

Course Outcome (CO):

- CO1 Get hands-on training to advanced mode of cataloguing complex reading materials available in different formats.
- CO2 Clear understanding the preparation of cataloguing for non book materials according to the latest edition of AACR/RDA
- CO3 Gain knowledge of applying various cataloguing codes for non book materials.
- CO4 Knowledge and skill of using different formats and standards that can be used for the cataloguing the resources
- CO5 Get hand on experience of the different non book materials forms.
- CO6 Understating of current trends in cataloguing of non-book materials
- CO7 Hands-on training to catalog different type and formatted documents in library.

Cataloguing of Non Book materials according to the latest edition of AACR/RDA

64hrs

LSP505: WORK EXPERIENCE AND LIBRARY TOUR

Objectives:

- **Work experience:** The M.L.I.Sc. students shall work 2 (two) hours per week in the library identified by the department and submit the work experience report before the commencement of theory examinations.
- Any library work experience serves the purpose of both – the student as well as the library. It is supposed to add value to both the parties. These objectives are:
 - To increase the knowledge and skills of recent graduates;
 - To upgrade their skills in a specific area of information service;
 - To train them in order to boost their efficiency for crucial department/section;
 - To train them to adopt to the existing working conditions in the home library
- **Library Tour:** There shall be a library tour, which is compulsory and student has to submit a tour observation report. Library tour will be conducted during mid-semester vacation falling between II and III semester. Each student shall submit a library tour report prepared under the guidance of the teacher and submit the same before the commencement of the theory examinations.

Course Outcome (CO):

- CO1 Gain practical experience of working in real libraries
- CO2 Validate or compare their classroom learning in real library activities
- CO3 Gain knowledge of activities performed in different type of libraries like university, professional, research and public libraries.
- CO4 Will develop analytical skills and knowledge are enhanced by practical experience.
- CO5 Gain more knowledge enabled to critically analyze the library policies, functions, activities, services and process of different libraries
- CO6 By visiting all kinds of library and information centers in other states or countries, they can see directly what they have learned and follow in their future.
- CO7 Fulfillment, the course allows students to visit some real libraries and study the functions and services.

- a) Work experience: The M.L.I.Sc. students shall work 2 (two) hours per week in the library identified by the department and submit the work experience report before the commencement of theory examinations. **32hrs**
- b) There shall be a library tour, which is compulsory and student has to submit a tour observation report. Library tour will be conducted during mid-semester vacation falling between II and III semester. Each student shall submit a library tour report prepared under the guidance of the teacher and submit the same before the commencement of the theory examinations.

Open Elective

LSE506: REFERENCE/INFORMATION SERVICES

Objectives:

- To familiarize students with the meaning, definition, use of Reference/Information Services
- To know the various types of information services
- To study the activities of National and International information systems
- To study Information Needs, use and user studies
- To understand user education and techniques methods of user education programme
- To study the Knowledge skills and Techniques required for Professionals to deal with Print, Non-Print, and electronic forms of Information System and Web Based Services
- To understand the indexing and abstracting services

Course Outcome (CO):

- CO1 Will be familiar with the concept need and importance reference / information services and the planning of reference services.
- CO2 Familiar with the different types of library services like CAS, SDI, DDS, Translation and other services.
- CO3 Will familiar with indexing and abstracting services.
- CO4 Will understand the information users and their information needs, categories of Information users and Information Seeking Behavior.
- CO5 Will gain the knowledge of user education, objectives technique and methods of user education programs.
- CO6 Will study the information systems and programmes like NISCAIR, DESIDOC, INFLIBNET, MEDLARS, INSPEC, BIOSIS, CAS, ISI.
- CO7 Will solve problems of libraries information centres, knowledge centres and professional requirement for to deal with print and electronic information system and services.

- Unit 1 : Information Services: Definitions, Need, Importance. Reference Service: Concept, Definition and types, Reference interview, planning of reference services. **08hrs**
- Unit 2 : Current Awareness Services (CAS) & Selective Dissemination of Information (SDI) services, Translation Services and Document Delivery Services – concept, definition, types and planning. **08hrs**
- Unit 3 : Indexing Services, abstracting services-concept, definition, types and planning. **08hrs**
- Unit 4 : Information Users and their Information Needs, Categories of Information Users Information Needs and Information Seeking Behavior, User Studies: Methods. **08hrs**
- Unit 5 : User Education, Objectives of user education, Technique and methods of user education programme. **06hrs**
- Unit 6 : Study of Information systems and Programmes: NISCAIR, DESIDOC, INFLIBNET, MEDLARS, INSPEC, BIOSIS, CAS, ISI. **08hrs**
- Unit 7 : Knowledge skills and Techniques required for Professionals to deal with Print, Non-Print, and electronic forms of Information System, Web Based Services. **04hrs**

References:

1. SunithaAsija (1998): Documentation Services in India: A review of some selected documentation Centres, New Delhi, Academic Publications.
2. Guha, B (1983): Documentation and Information: Services techniques and systems, Calcutta: World Press.
3. Gupta, B M and other (1991): Handbook of Libraries, archives, Information Centres in India, New Delhi: AdityaPrakshan
4. Krishan Kumar (1990): Reference Services, New Delhi, Vikas
5. Lucas, Amy. Ed. (1989): Encyclopedia of information systems and services, Detroit, Gale Research.
6. Neelameghan A and Prasad K.N. Eds. (2005) Information systems and services in India, Bangalore, SRELS.
7. Vickery, B (1987): Information Systems, London, Butterworths.
8. Alan P., Gwyneth T and Goff S (1999): The library and information professionals guide to the World Wide Web, London, Facet Publishing
9. Chowdhruy GG and SudattaChowdhurty (2001): Serching CD-ROM and Online Information Sources, London: Facet Publishing.
10. Chowdhruy GG and SudattaChowdhurty (2001):` Information Sources and Searching on the World Wide Web, London, Facet Publishing
11. Grogan, Dennis (1984): Science & Technology: An introduction to literature, London, Clive Bingley.
12. Krishna Kumar (2003): Reference services, Ed.3, New Delhi, Vikas.
13. Prasher, R.G.: Information and its communication, Medallion Press, Ludhiana, 2003.
14. Jagtar Singh: Information democracy and South Asia Promises and perils of the web, Medallion Press, Ludhiana, 2003.
15. Prasher, R.G.: Indian Libraries in IT Environment, Medallion Press, Ludhiana, 2003.
16. Khaisar M. Khan, Mallaiiah, Vishala B.K.: Proceedings of the National Conference on 'Democratization of Information using ICT: Role of Libraries for Social Enlightenment (DEMICT-2014), DLISc., Mangalagangothri, 2014, ISBN: 978-93-82845-33-1.

IV SEMESTER

Hard Core

LSH551: INFORMATION SYSTEMS AND SERVICES

Objectives:

- To familiarize students with the meaning, definition, use and implications of Information Systems
- To understand the structure and development of Information Systems
- To study the various components of information systems
- To study the activities of National and International information systems
- To understand the resource sharing and networks
- To know the bibliographic service
- To understand the planning design and evaluation of information systems

Course Outcomes (CO):

- CO1 Able define and describe structure, functions and components of information systems
- CO2 Makes students to understand nature of reference and referral services and importance of resource sharing.
- CO3 Clearly understanding of concept, importance and types of reference services
- CO4 Know current awareness and selective dissemination of information services
- CO5 Understanding of meaning and importance of resource sharing and national information network centres that are involved in resource sharing\
- CO6 Understand to generate subject bibliographies and provide them to needed users
- CO7 Have the knowledge of National Documentation centres and their role in information services
- CO8 Familiar with international agencies involved in provision of information services

- Unit 1 : Information systems: Basic concepts, Meaning, Objectives and Functions. - **08hrs**
Components of Information System: Structure, Functions and Services, Libraries, Documentation Centres, Information centres, Data centres, Information analysis centres, Clearing houses, Data banks, Data Curation centres, Museums, Memories, Institutional Repositories, Open Archives, Referral, Translation Centres, and Publishing Houses.
- Unit 2 : Reference service: Types -Short and Long Range with examples. Reference process, Steps in providing reference services, Virtual Reference Desk (VRD), Management, technology and resources. Referral service. Reference Collection, Knowledge, Skills and Qualities of a Reference Librarian. **08hrs**
- Unit 3 : Compilation of CAS and SDI, Indexing and Abstracting Bulletins, Translation Service. On-line Services: Alerting services-Listservs and Subject portals, FAQs - Developing FAQs -methods and techniques. Document Delivery Services -Needs and Importance, Types of Document Delivery Services. **08hrs**
- Unit 4 : Resource Sharing and Networks: Consortia- Importance and objectives. Study of Information networks- OCLC, INFLIBNET, UGC-INFONET, DELNET, , and INDEST. - Information policies and programmes. Planning, Design and Evaluation of Information systems. **08hrs**

- Unit 5 : Bibliographic Services -Importance, Types and its role in Information access and use Preparation of bibliographies, Trend Reports, State of the Art reports and Digests. **04hrs**
- Unit 6 : National Documentation Centers and Information Systems: NISCAIR, DESIDOC, NASSDOC and SENDOC **06hrs**
- Unit 7 : International Information Systems and Services: Identification, Features and Use: BIOSIS, INSPEC, ERIC, AGRIS, INIS and MEDLINE **08hrs**

References:

1. SunithaAsija(1998). Documentation services in India: A review of some selected documentation centres. New Delhi: Academic Publications.
2. Guha, B. (1983). Documentation and Information: Services, techniques and systems. Calcutta: World Press.
3. Krishan Kumar (1990). Reference service. New Delhi, Vikas.
4. Vickery, B.(1987). Information systems. London: Butterworths.
5. Davinson Donald: Reference service. London, Clive Bingley, 1980.
6. Hanson, CW: Introduction to science Information work. London, ASLIB, 1973.
7. Maizell, RE and others: Abstracting scientific and Technical Literature. New York, Wiley, 1970.
8. Ranganathan, SR: Reference Service Ed 2. Bangalore, SaradaRangnathan Endowment for Library Science, 1992.
9. Rowley, JE and Turner: CMD: Dissemination of information, London, AndruDeutach, 1975.
10. Rowlay, JE and Turner: Reference Service and sources of Information. New Delhi, EssEss Publications, 1987.
11. Sewa Singh: International Manual of Reference and Information Services. Delhi, Beacon Book, 1997.
12. Sharma, JS and Grover, DR: Reference Service and Sources of Information. New Delhi, EssEss publishers, 1992.
13. Prasher R.G.: Information and its communication, New Delhi, Medallion, 1937
14. Anil K. Dhiman and Yashoda Rani: Reference Sources and Services, New Delhi, EssEss Publications, 2005.
15. Gurudev Singh: Information Sources, Services and Systems, PHI learning Private Limited, Delhi, 2013
16. Walford, A.J: Guide to Reference Materials, London, Library Association, 1990, 3V.
17. Subramanayam, K : Scientific and Technical Information Resources, New Delhi: Anmol, 2001
18. Katz, W A.: Introduction to Reference Work. New York: McGraw- Hill, 1992

LSH552: INFORMATION TECHNOLOGY – III

Objectives:

- To study database design, development and management
- To know WINISIS and MS-Access
- To introduce the concept of digital library
- To understand the process of web programming, database connectivity
- To study the implications of Web technologies to library and information management.
- To understand internet tools and techniques
- To familiarize students with open sources library software

Course Outcomes (CO):

- CO1 Familiarizing students with internet, design, development of DBMS, web design and digital library using metadata standards.
- CO2 Skills for installing and customizing computer system application software like WINISIS,
- CO3 Understanding of topology and requirements of computer networks and type for networks available for accessing information online
- CO4 Knowledge of scripts and standards required for web design and programming.
- CO5 Clear understanding of purpose, methods and cyber laws related to internet and its usage
- CO6 Knowledge of computer hardware, software and other infrastructure required to develop digital library
- CO7 Familiar with metadata and other web standards to create digital libraries and open sources software available for creating digital repositories

- Unit 1 : Database: Design, Development and Management, Database Models, DBMS, RDBMS. Data mining and Data warehousing: Decision Support Systems (DSS) and Online Analytical Processing (OLAP). **06hrs**
- Unit 2 : Study of WINISIS and MS-Access: System Overview, system Installation, Database Construction, Techniques, Menus, Tools and Creation of database **08hrs**
- Unit 3 : Networks: Concept, Definition, Need, Uses. Network Topologies, Types of Networks LAN, MAN and WAN. Network Architecture, Network Protection and Security - TCP/IP, IPX. **06hrs**
- Unit 4 : Web design: Web Server, Web hosting, using web graphics, medias, Design tools – HTML, XHTML, Dreamweaver, CSS, Javascripts. Website – types, Web standards. **08hrs**
- Unit 5 : Internet: History, ISP, Internet Tools and Services, Electronic resources available on the Internet, WWW, E-Mail, Telnet, FTP, Internet Relay Chat. Search Engine, Gopher, Archie, Veronica, WAIS, Usenet/List Forum, PING, Web sites, Browser, Blogs, Semantic Web, Social Network, Cloud Computing, Regulation of Cyber Laws. **06hrs**
- Unit 6 : Digital Librarians: Meaning, Definition, Functions, Scope; Infrastructure required for setting up a Digital Libraries – Hardware, Software and Human ware, Library Materials, Digital Materials; Advantages and Disadvantages of Digital Libraries. Institutional Repositories **08hrs**

Unit 7 : Digital Library Standards, Storage, Security and Open Source Software: Standards- 08hrs
MARC or MARC-21, Dublin Core Metadata, Z39.50. Storage-database and Security. Open source software like Greenstone, DSpace and Eprint, Digital Library Projects.

References:

1. Beiser, Karl: Essential guide to dbase III+ in Libraries. London, Meckler, 1987
2. Biddiscombe, Richard: End user revolution: CD-ROM, Internet and change role of the Information Professional. London, Library association, 1996
3. Burns, A: New Information Technology. 1984
4. Edmunda, R A: Prentice Hall Encyclopedia of Information Technology, 1987 Essential Guide dBase plus in Libraries. 1988
5. Faruthi, S N Ed.: Library Techniques and Technologies Perspectives in Multimedia Library Development. New Delhi, Kanishka, 1997
6. Kent, A and Galvin, T J Ed.: Information Technology: critical Choice for library Decision Makers. 1992
7. Martin M: Schaum;s outline of Theory and problems of data processing
8. Menon, V V and Prasad, H N Ed.: Information Technology and National Development. Agra, Y K Publishers, 1994
9. Moorthy, A L : Information Technology applications in academic Libraries in India with emphasis on networking services and information sharing, Ahmedabad, INFLIBNET, 1997
10. Ojha, D C, Edd. : Computer Applications in Library and Information Science. Jodhapur, Scientific Publication, 1995
11. Parthasarathy, S : Computer Application to Libraries, IR and Networking. Bangalore, SaradaRanganathan Endowment for library science, 1986
12. Rouse, Rowena: CD_ROM and online computing, Electronics and Telecommunication databases, London, ASLIB, 1994
13. Satyanarayana, R : Information Technology and its facts. New Delhi, Manak, 1998
14. Unesco, Reference Manual and CDS/ISIS Pascal Manual, 1989
15. Zokoczy, P : Information Technology,: An Introduction. Ed.2 1985
16. UNESCO. Information and communication technologies in development A. UNESCO perspective prepared - Paris UNESC, 1996
17. UNESCO. Reference Manual and CDS/ISIS Pascal Manual, 1989.
18. Prasher, R.G.: Indian Libraries in IT Environment, Medallion Press, Ludhiana, 2003.
19. Khaisar M. Khan, Mallaiah, Vishala B.K.: Proceedings of the National Conference on 'Democratization of Information using ICT: Role of Libraries for Social Enlightenment (DEMICT-2014), DLISc., Mangalagangothri, 2014, ISBN: 978-93-82845-33-1.


LSP553: INFORMATION TECHNOLOGY – II (PRACTICE)

Objectives:

- To provide hands on experience with Networking and Internet
- To provide hands on experience with Internet tools and Services
- To provide hands on experience with Online Database searching
- To provide hands on experience with Web design and Web hosting
- To train students in using Information Technology tools and techniques
- To train the students with the digital library and related issues.

Course Outcome (CO):

- CO1 Practicing session to get trained to work in computerized network environments.
CO2 Experience of creating databases using WINISIS and MS-Access
CO3 Working experience of different computer networks
CO4 Knowledge of using internet with clear understanding of cyber laws and other web standards
CO5 Skills of online database searching
CO6 Knowledge of web design and web hosting
CO7 Working experience of installing and working through open library software like Greenstone and D-Space



Unit 1	: Creation of Database: CDSISIS / WINISIS	10hrs
Unit 2	: Networking and Internet.	10hrs
Unit 3	: Internet Tools and Services.	10hrs
Unit 4	: Online Database searching.	10hrs
Unit 5	: Web design and Web hosting.	10hrs
Unit 6	: Greenstone.	10hrs
Unit 7	: D-Space.	02hrs

LSP554: DISSERTATION

Objectives:

- To determine mode and methods for primary data to familiarize students to formulate research questions and statement of problem
- To understand scientific method of literature research
- To design suitable research methods, determine sample size and design appropriate research instrument
- To determine mode and methods for primary data collection from the target population
- To know creation of database responses from respondents and decide about tools and techniques for data analysis.
- To understand methods of interpretation of results data analysis in a meaningful manner.
- To develop writing skills for presenting research findings through submission of dissertation, which will be evaluated for award of degree

Course Outcome (CO):

- CO1 Apply theoretical knowledge on research methodology into practice.
- CO2 Formulate research questions and statement of problem
- CO3 Conduct literature research scientifically
- CO4 Design suitable research methodology including sample size and research instrument to collect data
- CO5 Understand the mode of data collection, creation responses database do carryout the data analysis
- CO6 Apply suitable statistical tools and techniques for data analysis and interpretation of research findings
- CO7 Understand the method of presenting and reporting research findings.

64hrs

- M.L.I.Sc. students shall have to choose a topic for dissertation and preliminary preparation be carried out under the guidance of a teacher during M.L.I.Sc. 3rd semester.
- M.L.I.Sc students shall have to submit the dissertation on the chosen topic, before the commencement of the theory examination of M.L.I.Sc. 4th semester.

Soft Core

LSS555: MANAGEMENT INFORMATION SYSTEM (MIS)

Objectives:

- To familiarize students with the concept and implications of Management Information System (MIS)
- To know fundamental issues of information systems
- To study various sources of information like organizations and databases.
- To familiarize students with concepts, types and infrastructure of knowledge management
- To study Information Systems planning
- To understand the quantitative methods and tools for analysis and decision making
- To understand the overall information needs of an organization

Course Outcome (CO):

- CO1 Understanding of concept, meaning, function and components of Management information systems
- CO2 Familiarizing students with of management information systems, sources related to organizational information, knowledge management and organizational information requirements.
- CO3 Able know and analyze with information needs and requirements of organization
- CO4 Familiar with management principles and applications on IT, organizational effectiveness and communications
- CO5 Familiar with knowledge management systems and their implications on information services
- CO6 Familiar with methods of planning, designing and developing information systems.
- CO7 Aware of standard models like DSS, ERP, OOPS to design information systems.
- CO8 Knowing quantitative methods and tools for analysis and decision making.

- Unit 1 : Introduction to fundamental issues of information systems (IS), MIS-concept, meaning and definitions, components and objectives of MIS. **08hrs**
- Unit 2 : Understanding of the overall information needs of an organization: analysis of organization information requirements, and prioritizing IS project, Analysis of information needs, specification of system requirements, analysis of alternatives, design of alternatives. **08hrs**
- Unit 3 : Overview of managerial applications of information technology (IT) to increase effectiveness of organizations, cooperative work, organizational competitive advantage and inter- organizational communication. **08hrs**
- Unit 4 : Knowledge Management: Concept, Definition, Purpose of KM, Need and Scope, Historical Development, Role of KM, Impact on Society, Knowledge Management Approaches, Information Technology and Knowledge Management. Application of Knowledge Management in LIS centers, Role of Information Professionals in Knowledge Management. **08hrs**

Unit 5	: Information Systems planning: Use of case methods in planning Information Systems.	06hrs
Unit 6	: Decision Support Systems, ERP, state-of-the-art techniques for information systems specifications and design, Real- time structured analysis and design, and object- oriented analysis and design.	06hrs
Unit 7	: Quantitative methods and tools for analysis and decision making.	06hrs

References :

1. Singh, S.K.: Essentials of Integrated Library Management, Worldwide circulation through authors press Global Network, Prist Published 2002 by Authors press, New Delhi.
2. Prajapathi Rakesh Kumar Shantilal: Theories and Practices of Library Management, Discovery publishing House, Pvt. Ltd., New Delhi, Tilak Wasan, First edition 2013.
3. R.V. Kulkarni and M.J. Joshi: Role of Management Information System for university administration, ESS Ess publication, New Delhi, First published 2007.
4. Muneesh Kumar: Business Information systems, Vikas Publishing house Pvt. Ltd., New Delhi, Reprint 1999.
5. R.V. Franks: Management Information Systems, Published by Kogan Page Ltd., London, 1988.
6. J. Sadagopan: Management Information Systems, Prentices Hall of India Private limited, New Delhi, 2007.
7. William A. Bocctino: Management Information Systems, Prentice-Hall International, Inc, London 1972.
8. Effyoz: Management Information Systems, Cengage learning India Pvt., Ltd, New Delhi, 2006.
9. Gardon B. Davis, Margrethe H. Olson: Management Information Systems: Conceptual Foundations, Structure and Development, second edition, published by Tata McGraw-Hill Publishing Company limited, New Delhi, 1974.
10. Gordon B.: Management Information System: Conceptual Foundations, Structure and Development, Davis, McGraw-Hill Book Company, New York, 1974.
11. Gory W. Dickson and James C. Wetherbe: The Management of Information Systems: McGraw-Hill Book Company, New York, 1985.
12. Kenneth C. Laudon and Jane Price Laudon: Management Information Systems Organization and Technology, Prentice-Hall of India private limited, New Delhi, 2002.
13. Devid M. Kroenke: Management Information Systems, McGraw-Hill, New York, 1992.
14. Khaisar M. Khan, Mallaiah, Vishala B.K.: Proceedings of the National Conference on 'Democratization of Information using ICT: Role of Libraries for Social Enlightenment (DEMICT-2014), DLISc., Mangalagangothri, 2014, ISBN: 978-93-82845-33-1.

LSS556: CONSERVATION AND PRESERVATION OF INFORMATION RESOURCES

Objectives:

- To familiarize students with the preservation and conservation of information sources
- To know evolution of writing materials
- To understand different types of library materials, their preservation
- To study various National Archival Initiatives of different countries
- To know Digital Preservation
- To study record management concepts and issues
- To understand hazards to library materials and their preservation

Course Outcome (CO):

- CO1 Educating students on tools and techniques of preserving information sources making them aware of legal issues while digitizing and digital preservation/archives.
- CO2 Familiar with methods and process practiced to preserve important documents in libraries.
- CO3 Knowing evolution of storage devices and materials used to record and preserve knowledge through ages till modern times.
- CO4 Aware of hazards of library materials and modes used for their preservation.
- CO5 Aware of Open Archive initiatives (OAI) and nature of information accessible through those open repositories.
- CO6 Knowing about records management and ERM code of ethics for digital archives.
- CO7 Knowing methods, tools, legal issues related digitization and digital preservation

- Unit 1 : Introduction to Concepts of Archiving, Preservation and Conservation. Need and significance of Archiving, Preservation and Conservation of Information Resources. **06hrs**
- Unit 2 : Evolution of writing materials- Clay, papyrus, metallic plates, skin, parchment, vellum, palm leaves, Palm leaves, Papyrus, Parchment and Vellum - Their history, nature, use as writing materials and their preservation. History of Paper making, Different types of paper and their nature. **08hrs**
- Unit 3 : Different types of library materials, their preservation and maintenance: Paper Based materials - Book and Non Book materials, Library Binding, Binding Standards. Preservation and conservation of non-print materials: Microforms, AV records, Magnetic Plates, Tapes & Diskettes, Optical media, Magneto Optical Discs. **08hrs**
- Unit 4 : Hazards to Library materials and their preservation: Environmental Hazards, Biological Hazards and Humanbeing as an enemy of library materials. Disaster Prevention and Recovery. **08hrs**

- Unit 5 : To Study various National Archival Initiatives of different countries: NARA of US, Australian National initiatives, Public Archives of Canada. **06hrs**
- Unit 6 : Records Management Concepts and Issues Involved. Information Resource Management., to include Electronic Resource Management Code of Ethics for Archivists. **08hrs**
- Unit 7 : Digital Preservation: Tools and techniques, legal issues in digitalization. **06hrs**

References :

1. Acemoglu, D.: Definitions of Conservation, New Delhi: Oxford University, Press, 2002.
2. Ahluwalia, J: Libraies and Scholarly Communication in the India: The Historiacal Dimension, New Yor: UNDP, 2008.
3. Bardhan, P.: Selecting and Appraising Archives and Manuscripts, Amritsar: Guru Nanak Dev University, 2006.
4. Batra, G.: Preservation of Library and Archival Materials: A Manual London: BBC Books, 2005.
5. Bhall, G.S.: Collections Policies and Preservation, Cambridge: Cambridge University Press, 2006.
6. Canagarajah, S.: Library Resources and Technical Services, New Delhi,: Council for Social Development, 2006.
7. Chadha, G.K.: Preservation: Issues and Planning, New Delhi: Oxford University, Press, 2004.
8. Dahlman, C.: A Glossary of Archival and Records Terminology, London and New York: Longman, 2000.
9. Dasgupta, A.K.: The Future of the Past: Preservaiton in American Research Libraries, London: Yale University, Press, 2008.
10. Dearden, L.: Photographs: Archival Care and Management, London: University College London, 2004.
11. Gupta, R.: The Artit's Handbook of Materials and Techniques, London: Sage Publicatons, 2002.
12. Gupta, S.P.: Permanence of Paper for Publications and Documents in Libraries and Archives, Chicago: Univesity of Chicago Press, 2006.
13. Bhaghath Ben, GovindbhaiPrajapati: Preservation of Library Collection: Discovery Publishing, New Delhi, 2013.
