



Faculty of Library and Information Science

Teaching & Examination Scheme of M.Lib & I.Sc Course

Paper Code	TH/P R	Title of the Paper	Hours per week			Marks Distribution						
						Internal Assessment		External Assessment				Total
						Assignment Marks		Theory Marks		Practical Marks		Marks
			L	T	P	Max	Min	Max	Min	Max	Min	
MLS-201	TH	Universe of Subjects & Research Methodology	4	1	-	20	8	80	32	-	-	100
MLS-202	TH	Advanced Library Organisation and Management	4	1	-	20	8	80	32	-	-	100
MLS-203	TH	Information Processine Retrieval Systems	4	1	-	20	8	80	32	-	-	100
MLS-204	TH	Information Communication and Society	4	1	-	20	8	80	32	-	-	100
MLS-205	TH	Information Sources, Systems and Programmes	4	1	-	20	8	80	32	-	-	100
MLS-206 MLS-206-A MLS-206-B MLS-206-C	TH	ELECTIVE* Information Technology: Applications Digital Library Robotic Process Automation for Library	2	1	1	20	8	80	32	-	-	100
MLS-207	TH	Information Institutions, Products and Services	4	1	-	20	8	80	32	-	-	100
MLS-208	PR	Viva Voce Computer Practical Tour Report/Field Work/Survey Report (Major Project)			2	-	-	40 40 20	50	-	-	100
Total			36			140		660		-	-	800



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M. Lib & I. Sc.

Course	Subject	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	UNIVERSE OF SUBJECTS & RESEARCH METHODOLOGY	MLS-201	4	1	-

Course outcome:

On successful completion of the course, to learn about the research methods, statistical techniques and their application in LIS.to ascertain research support tools and research communication process; learn various tools for data collection and data analysis. Learn how to write the research report. Understanding of research necessary for careers as information professional sat par with global level.

Unit – I

Various subjects having degree as the field of study and their interrelation. Religion, philosophy and science their contributions to knowledge. Modes of thinking: speculative. Positivistic and authority centered mode of thinking.

Unit – II

Definitions and types of research: steps Researches process, research methods: Historical survey/ descriptive and with Ranganathan's spiral of Scientific methods.

Unit – III

Data collection techniques: Documentary, Observation, Experimental. Questionnaire, interview, sampling.

Unit – IV

Definition and types of research design meaning. Definition and testing of hypothesis Bibliometrics.

Unit – V

Report writing organization of report. Tabular presentation and reporting. Reporting format. Graphics in report representation.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	ADVANCED LIBRARY ORGANISATION AND MANAGEMENT	MLS-202	4	1	-

Course outcome:

On successful completion of the course, Students understood management principles and other cross-disciplinary perspectives to develop best practices in library and information centers. Understood the system of charging and discharging Acquire knowledge on HRD, Budget, planning and their relationship to the library environment Acquire knowledge to manage the information resources, including information acquisition, management, dissemination, organization and preservation. Able to facilitate the variety of audiences.

Unit I

Role of Academic library in Higher Education in India. Role of UGC and state Government in promoting Academic library like university. College and academic institutions. Report of committees and commissions of higher education. Ranganathan as advisory committee, UGC committee react 1998.

Unit – II

Personal management, overview of personnel management. Manpower planning HRD-quality improvement programmers. UGC service condition and pay scales. Yofesher counsels and career advancement.

Unit – III

Collection development policy: weeding policy. System analysis and design: MIS, PERT/CPMS, TQM.

Unit – IV

Personnel management and organizational behavior: organizational structure, hierarchy's authority and delegation, staffing, understanding human behavior etc. group behavior MBO, MBE, official communication, internal and external co-ordination, social communications responsibility of management.

Unit – V

Implications of INFLIBNET and Resource Sharing. Role of internet in promoting of academic library services. Functional capabilities of a local library network. UGC information centers for sciences and technology and social sciences.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	INFORMATION PROCESSING RETRIEVAL SYSTEMS	MLS- 203	4	1	-

Course outcome:

On successful completion of the course, to learn the knowledge on various sources and services provided by library, to understand the reference sources; Institutional Repository, Web OPAC, Online Databases, and Citation databases, to learn the context of various information services, provide by the library, to understand various national information systems and their role in creation, organization, dissemination and preservation of information. To work with Web 2.0 technologies such as RSS, blogs and wikis.

Unit – I

Information storage and retrieval objectives of ISAR systems. ISAR systems: Operation and design compatibility ISAR system. Evaluation of ISAR systems.

Unit – II

Information Retrieval: Information Retrieval Process. The process of searching search strategies and Heuristics common command languages and multiple data base searching.

Unit – III

Index and indexing : definition, indexing systems sss, PRECIS, POPSI, Special types of indexing : KWIC, KWOC etc. citation indexing languages. Thesaurus. Automation indexing.

Unit – IV

Network and networking: concept of network, major networking in India and abroad, NICNET, INFLIBNET, DELNET, and CALIBNET.

Unit – V

Reprography: Concept, methods basis of choice of reprographic equipment, micrograph evolution, types of microforms, microforms, microform retrieval system digital microform.



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M.Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	INFORMATION COMMUNICATION AND SOCIETY	MLS- 204	4	1	-

Course outcome:

On successful completion of the course, students familiar with consortia in different levels and subjects. Attained knowledge of Library Networks. Enable the students obtained knowledge about online databases, and resource sharing. Gained knowledge in resource sharing techniques and procedures.to make the students aware with the latest developments and trends in the field of Resource sharing

Unit – I

Information: its nature, property and scope, comparative study of data information and knowledge. Data: definition, type's nature properties and scope.

Unit – II

Information generation and communication: communication process and media. Modes and forms of information, information theory.

Unit – III

Information diffusion process, knowledge generation cycle. Knowledge generation to utilization, personal knowledge and public knowledge. Knowledge acquisition, learning process.

Unit – IV

Intellectual property act, rishi to information act, data security and fair use.

Unit – V

Information as on Economic Resource. Information policies national and international information society. Knowledge of duplications of information.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	INFORMATION SOURCES,SYSTEMS AND PROGRAMMES	MLS- 205	4	1	-

Course outcome:

On Successful completion of the course, students familiar with consortia in different levels and subjects. Attained knowledge of Library Networks. Enable the students obtained knowledge about online databases, and resource sharing. Gained knowledge in resource sharing techniques and procedures, to make the students aware with the latest development and trends in the field of Resource Sharing.

Unit – I

Physical medium of information, print media, multimedia and hypertext, non- print media: micro form, electronic and optical media.

Unit – II

Information sources, systems and programmers, Indian council of social science research, VISSAT, National manuscript mission India.

Unit – III

Non- disciplinary studies, content analysis and its correlation to cliental, customized organization of information source. Informational organizational INIS, AGAIS, ARIS.

Unit – IV

Rural community information system, enjournance programmed. Environmental information system and biotechnology information system.

Unit – V

User education programmer goals objectives, techniques, methods UEP industrial environment information literacy and digital divide.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	INFORMATION TECHNOLOGY: APPLICATIONS	MLS- 206-(A)	2	-	2

Course outcome:

On successful completion of the course Students will attain knowledge of computer hardware and software. Students will attain an understanding encoding standards of computer. Students will understand the importance of operating system. Students will understand various computer network and different types of browser. Students can create and use Multimedia tools, spread sheets, Charts and graphs.

Unit – I

Overview of information technology: computer technology, printing and publishing technology CD rom and DVD.

Unit – II

Storage devices definitions, types of networking (LAN, WAN), data transmission, communication channel, transmission media, switching mechanism topology of network, wireless LANs.

Unit – III

Internets and its services: Origin and development, resource and services though internet, searching on the internet (WWW, subject directories, search engines, uses of internet access in libraries) intranets.

Unit – IV

Library automation: Library keeping operations, automated acquisitions, serial control catalogue system, silent features of SOUL.

Unit – V

Digital libraries general definition, e book founds hardware and software requirement, data capturricy like scanners, OCR and digital camera.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	DIGITAL LIBRARY	MLS- 206-(B)	2	-	2

Course outcome:

The objective of this course is to introduce the students with the basic concept of digital libraries and major digital library initiatives. The students will also be familiar with the components and architecture of digital library along with related legal issues.

UNIT-1

Introduction and Overview to Digital Libraries: Digital Libraries: Conceptual Framework; Definitions, Models and Theories, History and evolution of Digital Libraries, Digital Divide, Issues and challenges involved in building digital libraries, Major Digital library Initiatives in India and abroad.

UNIT-2

Preservation and Legal Issues: Legal Issues of DL – Intellectual Property Rights (IPR), Copyright, Open Licenses – GNU, Creative Commons, and Approaches to Digital Preservation: Policies & Strategies Preservation Metadata Maintenance Activity (PREMIS) and Preservation Projects Digital Archiving: Concepts, Methods and Procedures, Self Archiving Policies.

UNIT-3

Information Management and Access: Metadata: Role of Metadata in Digital Resource Management; Metadata Harvesting, Metadata Schemas: Generic Schemas: DCMI, MODS, TEI; Domain Specific Schemas: METS, VRA Core, Information Access in Digital Libraries-Open Access.

UNIT-4

Collection Development in Digital Libraries: Digital Resources: Nature, Characteristics and types, Building Digital Library Resources – Born Digital and Digitized, Digital Conversion: general issues, digitization process, standards, file formats, Unicode, Metadata, Selection and Acquisition of materials for Digitization, Digital Collection Management and Evaluation – Issues and Strategies.

UNIT-5

Digital Library Architecture:DL Architecture Overviews, Principles and Types: Distributed, Federated, Service Oriented and Component based Architectures, Digital Library Components: Identifiers – Handles – Digital Object Identifier (DOI) Persistent Uniform Resource Locator (PURL), Interoperability, Security Digital Library Software: Open Source.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	ROBOTIC PROCESS AUTOMATION FOR LIBRARY	MLS- 206-(C)	2	-	2

Course outcome:

The modern libraries are heading towards automation. Most libraries are digitized and the personnel working in libraries need to be having sufficient knowledge and skills related to library automation, to gain knowledge of robotics process automation, to understand the automation cycle, to evaluate library automation systems and applications of artificial intelligence of library & information Centre.

Unit: 1

Introduction to Robotic Process: Introduction to RPA-Overview of RPA-Benefits of RPA in a business environment- Industries & domains fit for RPA - Identification of process for automation-Types of Robots - Ethics of RPA & Best Practice -Automation and RPA Concepts - Different business models for implementing RPA-Centre of Excellence –Types and their applications - Building an RPA team - Approach for implementing RPA initiatives.

Unit: 2

Introductions to Library Automation: Library automation: Definition, Need, Purpose and Advantages. Historical development.

Unit: 3

Planning for Automation: Planning for Library automation, Automation of Library operations. Acquisitions, Cataloguing, OPACs, Circulation and Serials control. Retrospective conversion, creation and maintenance of bibliographic databases.

Unit: 4

Evaluations: Evaluation of Library automation systems. Criteria for evaluation. Evaluation techniques. Study of standards relevant to Library automation.

Unit: 5

Applications: Application of Barcode and RFID Technology for Library Functions, application of artificial Intelligence to Library and Information Centre.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credits		
			L	T	P
M.Lib & I.Sc.	INFORMATION INSTITUTIONS PRODUCTS AND SERVICES	MLS- 207	4	-	-

Course outcome:

On successful completion of the course, to deeply gained knowledge about information sources (print & electronic).to Determine types and Forms of information sources.to gained knowledge in databases for information sources. Identify and uses Internet information sources.to develop evaluation and practical skills in dealing with information sources.

Unit – I

Information centers: types and their organization, data centers and referral centers, information analysis and consolidation centers.

Unit – II

Literature searches and bibliographies. Technical enquiry service document delivery service, translation services.

Unit – III

Information products- information news letter, houses bulletin, in-house communications. Trade and product bulletins, state of art reports. Technical digests.

Unit – IV

Database support service, database: types and use, database intermediaries such as searchers, editor's etc. online information systems and information network networks and information networks information standards for database design and development.

Unit – V

Study of meddlers, OCLC, inspects, IFLA and FID.



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M. Lib & I. Sc.

Course	Subject Title	Subject Code	Credit		
			L	T	P
M.Lib & I.Sc.	Information Technology, Computer Practical with Report and Viva-Voce	MLS- 208		-	4

Dissertation

The Candidate is required to submit the report of a work undertaken by him in consultation with a Faculty member. The topic of the dissertation shall be fixed in consultation with the teacher at the beginning of the year. The project report shall be evaluated both by the external examiner and internal examiner out of 50 marks. The viva voce shall be conducted on the basis of candidate presentation of his work and evaluation will be out of 50 marks.

Computer Practical

Internal Search, E-Mail and Web Search.

Operating System (Windows UNIX)

Bibliographical Data Base Management with special reference to practical o CDS/ISHS.

Library Automation Practical with special reference to SOUL package of INFLNET.

CD-ROM Database Search.



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Books Recommended:-

Paper – I

- Boyee, R.R. Meadow, C.T. & Kraft D.H. (1994) Measurement in information Science. San Diego, Academic Press.
- Bush, Charles, A. & Harter Stephen P. (1980) Research methods in librarianship: techniques and interpretations, New York: Academic press.
- Ronald R. (2010) Basic Statistical methods, Calcutta TMH
- Krishan Kumar (1992). Research methods in library in social science, New Delhi, Vikas .
- Khan M.A. (2002) Research methods in Library and Information Science, New Delhi.
- Hafner, Arthur W. (1997) Descriptive Statistical techniques for librarians 2nd Ed.

Paper-II

- Anderson (R) Management information system and computer an introduction. 1986.
- Application of management techniques to library and information system, 12th IASLIC conference Roorkee, 1979.
- Mookherjee S.K. and Sengupta Library organization and library administration, 1972 World Press.
- Singh M. Library and Information management: theory and practice 1983. INT Delhi.
- Khanna J.K. Fundamentals of library organization 1984, EssEss New Delhi.

Paper- III

- Choudhary G.G. Introduction to modern information retrieval Ed. 2nd London.
- Guna B. Documentation and information: Service, techniques and system, Calcutta world press.
- Brown A.G. Introduction to subject indexing, ed 2nd London.

Paper-IV

- Agrawal S.S. Granthalaya and samaj, Jaipur RBSA publisher, 1994.
- Krishan Kumar Library Organization, Delhi.
- Sahai S.N. Library and Community, 1973.
- Sharma, Pandey S.K., Library and Society, ed. 2nd Delhi.
- Sonal Singh, Universe of Knowledge Structure & Development, Jaipur Raj Publishers.



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- Ranganathan S.R. Five laws of Library Science, Ed. 2nd.

Paper-V

- Atherton, P. Handbook for Information System and Services, Paris Unesco.
- Chaddha K Marketing of Library and Information Products and Services, Chatterjee, Amitabha, 2013 Elements of Information Analysis, Consolidation and Repackaging (IACR).
- Coudkhande V.G., 2008 Information needs and information seeking behavior: Library and information science research, Amravati, India: Shivneri Publisher.

Paper-VI

- Brody E.W. Communication tomorrow: New audiences, New Technologies, new media.1990
- Cawkel A.E. World Information technology manual Vol. 1 Computer telecommunications and information processing Vol. II System and Services. 1991.
- Crawford (Walf) Current technologies in the library: An informal overview, 1988.
- Kendall P.A. Introduction to system analysis and design: A structures approach, 1987.
- Rajaraman V. Fundamentals of Computers, 1991, prentice hall, Delhi.