

FIRST SEMESTER

LS 401: FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE

- Unit 1 : Library as a Social Institution: **10hrs**
Social and Historical foundations of Library; Different types of Libraries – their distinguishing features and functions; Role of Library in formal and informal education
- Unit 2 : Normative principles of Library and Information Science: **10hrs**
Five Laws of Library Science; Implications of Five Laws in Library and Information Activities
- Unit 3 : Library Development: **10hrs**
Development of Libraries in India with special reference to Karnataka
- Unit 4 : Laws relating to Libraries and Information: **10hrs**
Library Legislation – need, purpose and essential features; Library Legislation in India – problems and prospects; Overview of Public Library Acts in Indian States; 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)
- Unit 5 : Library and Information Profession: **10hrs**
Attributes of a Profession; Librarianship as a Profession; Professional Ethics and Qualities; Professional Education and Research
- Unit 6 : Professional Associations: **10hrs**
Professional Associations–Objectives and Functions; Role of Professional Associations in Library Development; Regional Library Association–Objectives, Functions and Activities, KALA; 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.
- Unit 7 : Public Relations and Extension Activities: **10hrs**
Concept, Definition and Scope; Facets and Programmes; Publicity and Extension, Outreach Activities; Library Path Finders (Guides)

LS 402: INFORMATION PROCESSING: CLASSIFICATION

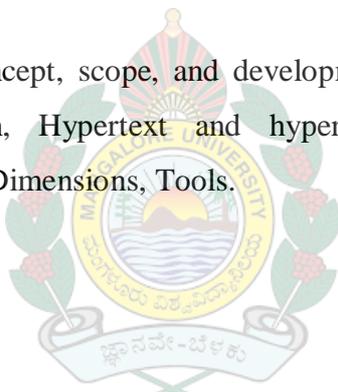
- Unit 1 : Library classification: Definition, meaning, objectives, purpose and functions. General theory of classification, Theory of knowledge classification, Theory of book classification **10hrs**
- Unit 2 : Universe of Knowledge: Structure, attributes, Modes of formation of subjects, Call number and its structure. **10hrs**
- Unit 3 : Postulational approach to classification: Planes of work and Canons of Classification **10hrs**
- Unit 4 : Fundamental categories: Facet analysis and facet sequence, Phase relations, Common Isolates. **10hrs**
- Unit 5 : Notational system: Meaning, need, functions and types, mnemonics, Hospitality in array and chain, Devices. **10hrs**
- Unit 6 : Study of selected schemes of classification: Dewey Decimal Classification, Universal Decimal Classification, Colon Classification. **10hrs**
- Unit 7 : Classification of e-resources ; Trends in Classification **10hrs**

LS 403: INFORMATION PROCESSING: CATALOGUING

- Unit 1 : Library Catalogue-meaning, definition, need. Purpose and functions of library catalogue. Physical forms, Inner forms; Different kinds of entries **10hrs**
- Unit 2 : Normative Principles: Laws, Canons and Principles of Catalogue **10hrs**
- Unit 3 : Subject Headings: Chain Procedure, Sears List of Subject Headings, Library of Congress Subject Headings **10hrs**
- Unit 4 : Study of Major Catalogue Codes; AACR (latest edition); Filing rules and procedures; Online Public Access Catalogue (OPAC) **10hrs**
- Unit 5 : Standardization of Bibliographic Description- ISBD (M), ISBD(S), ISBD (NBM); Bibliographic Record Format-(UNIMARC, CCF) **10hrs**
- Unit 6 : Co- operative, Centralized and Union Cataloguing **10hrs**
- Unit 7 : Current trends in Cataloging **10hrs**

LS 404: INFORMATION TECHNOLOGY – I

- Unit 1 : Introduction to computer: History and Development of Computers, Generations of Computers, Types of Computers, Limitations of Computers **10hrs**
- Unit 2 : Computer Hardware: Basic Units of Computer - Arithmetic/Logic Unit, Control Unit, Input Unit, Output Unit, and Memory Unit. **10hrs**
- Unit 3 : Computer Software: Systems Software - Operating Systems - MS DOS, MS WINDOWS, Multi - User Operating Systems like Linux, Unix, etc., Application Software – Word Processing (MS Word) MS Excel, MS Power point presentation. **10hrs**
- Unit 4 : Data Representation and File Organization: Binary code, Bit, Byte, Standards- ASCII, ISCII, UNICODE, File Organization. **10hrs**
- Unit 5 : Programming Languages: Machine Languages, Assembly Languages, High-Level languages, Generations of Programming Languages, Flow- Charting. **10hrs**
- Unit 6 : Multimedia Technology: Concept, scope, and developments, Multimedia PC, Audio and video, image representation, Hypertext and hypermedia, Hardware and Software Requirements, Animations – Dimensions, Tools. **10hrs**
- Unit 7 : DTP and Graphics **10hrs**



LS 405: INFORMATION PROCESSING: DDC (PRACTICE)

- 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).

LS 406: INFORMATION PROCESSING AACR – BOOKS (PRACTICE)

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

LS 407: SEMINAR

- Each student shall present a seminar on a topic assigned by the teachers **16hrs**

SECOND SEMESTER

LS 451: RESEARCH METHODOLOGY

- Unit 1 : Research: **11hrs**
Concept, Meaning, Need and Process of Research; Types of Research – Fundamental and Applied including inter disciplinary and multidisciplinary approach; Role of Research in the Development of Scholarship.
- Unit 2 : Research Design: **11hrs**
Conceptualization and Operationalisation; Types of Research Design; 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: **11hrs**
Scientific Method; Historical Method; Descriptive Method; Survey Method and Case Study Method; Experimental Method and Delphi Method.
- Unit 4 : Research Techniques and Tools: **11hrs**
Questionnaire; Schedule; Interview; Observation; Scales and check lists; Library and Record and Reports; Sampling Techniques.
- Unit 5 : Data Analysis and Interpretation: **11hrs**
Descriptive Statistics – Measure of Central Tendency; Mean, Mode, Median, Tabulation and Generalization; Measures of dispersion, Variance and covariance, Standard Deviation; Graphical presentation of data – Bar, pie, line-graphs, Histograms etc.; Regression – linear and non-linear; Chi Square Test; Sociometry; Statistical Packages – SPSS.
- Unit 6 : Bibliometrics, Scientometrics, and Informetrics: **10hrs**
Concept and Definition; Bibliometric Laws: Bradford's, Zipf's, Lotka's; Bibliographic Coupling; Obsolescence; Citation Analysis; Webometrics; Citation Studies; Informetrics; Scientometrics.
- Unit 7 : Research Reporting: **10hrs**
Structure, Style, Contents; Guidelines of Research Reports; Style Manual – Chicago – MLA-APA etc.; E-Citation and Methods of Research Evaluation.

LS 452: INFORMATION SOURCES

- Unit 1 : Introduction to Information Sources **10hrs**
Information Sources: Meaning, Definition, Nature, Evolution, Characteristics, Functions, Importance and Criteria for Evaluation.
- Unit 2 : Types of Information Sources **10hrs**
Primary, Secondary and Tertiary sources of information; Documentary Sources and Non – Documentary Sources, Human and Institutional sources; Non–print and Electronic sources.
- Unit 3 : Primary Sources (Print and Electronic Versions) **10hrs**
Periodicals, Technical reports, Patents, Standards and Specifications, Theses and Dissertations, Conference and Seminar proceedings, Trade literature, etc.
- Unit 4 : Secondary Sources (Print and Electronic Versions) **10hrs**
Dictionaries, Encyclopedias, Year books and Almanacs, Biographical sources, Bibliographies, Geographical sources, Current sources, Statistical, information sources, Handbooks and Manuals, etc.
- Unit 5 : Tertiary Sources (Print and Electronic Versions) **10hrs**
Directories, Guides to reference sources, Bibliography of bibliographies, Monographs, Union catalogues, Textbooks, etc.
- Unit 6 : Non documentary Sources and their Electronic Versions **10hrs**
Human Sources: 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, etc.
- Unit 7 : Non – Print and Electronic Sources **10hrs**
Microforms, Audio visual materials, Optical media based databases, Online databases, Internet sources, List servers, Subject gateways, USENET, etc.

LS 453: MANAGEMENT OF LIBRARIES AND INFORMATION CENTRES-I

- Unit 1 : Management Concept, definition and scope, Management styles and approaches, Principles and functions of management, Principles of Scientific Management. **10hrs**
- Unit 2 : Organizational structure: Principles of Organizational structure, Organizational structure of Library and Information Centres **10hrs**
- Unit 3 : Collection development: Types of documents and selection and acquisition, Tools, Procedures and Policies, Problems of Collection development **10hrs**
- Unit 4 : Technical Processing and Preparation of documents for use: shelving, Circulation work, Methods of book circulation- charging and discharging systems. **10hrs**
- Unit 5 : Maintenance, Preservation and Conservation of Information Resources, stock verification, Binding and weeding out **10hrs**
- Unit 6 : Library committee, Library statistics, Annual reports, Library Records: Compilation, Contents and style, Library rules and regulations. **10hrs**
- Unit 7 : 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 **10hrs**

LS 454: INFORMATION TECHNOLOGY – II

- Unit 1 : Genesis, History, Need and Areas of Library Automation; Strategies for Library Automation **10hrs**
- Unit 2 : Infrastructure Requirements for library automation- Hardware, Software, Humanware, etc.. **10hrs**
- Unit 3 : Functionalities of an automated system- Acquisition, Cataloguing, Circulation and Serials Control. OPAC, Web OPAC. **10hrs**
- Unit 4 : Retrospective conversion of records: Strategies and Techniques **10hrs**
- Unit 5 : Library Software Packages – Commercial - SOUL etc., Free / Open Source Software – KOHA etc., Evaluation of Library Automation Software. **10hrs**
- Unit 6 : Computerized Library and Information Services: Retrospective Conversion – Meaning, Retrospective Conversion Process, Library Consortium - Meaning, Definition Library **10hrs**

consortia in India.

Unit 7	: Digital Librarians:	10hrs
	Meaning, Definition, Functions, Scope; Infrastructure required for setting up a Digital Libraries – Hardware, Software and Humanware, Library Materials, Digital Materials, etc.; Advantages and Disadvantages of Digital Libraries	

LS 455: INFORMATION PROCESSING: UDC (PRACTICE)

Classification of Books and other documents according to the latest edition of UDC	64hrs
(Each Student shall maintain practical record and submit the same at the time of practical examination)	

LS 456: INFORMATION TECHNOLOGY – BASICS (PRACTICE)

Unit 1	: Exercise in the use of Operating systems: MS-DOS, Windows.	09hrs
Unit 2	: Exercise in MS-Word, MS-Excel, Ms-PowerPoint, Ms Access.	09hrs
Unit 3	: Exercise in DBMS; Searching Internet resources	09hrs
Unit 4	: Database search and retrieval; Searching CD-ROM database	09hrs
Unit 5	: SOUL	09hrs
Unit 6	: KOHA	09hrs
Unit 7	: Open Source Software D-Space etc.,	09hrs

LS 457: SEMINAR

Each student shall present a seminar on a topic assigned by the teachers	16hrs
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THIRD SEMESTER

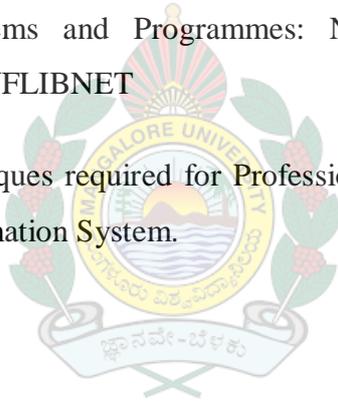
LS 501: INFORMATION LITERACY:

Unit 1	: Information Literacy Meaning, Definition; Evolution of the concept; Historical perspective of Information Literacy	12hrs
Unit 2	: Types of Information Literacy Technology literacy, media literacy, digital and computer literacy etc; Life long learning and its components	12hrs
Unit 3	: Models of Information Literacy Partners of Information Literacy; Information Literacy instructions in different types of library / information centres	10hrs
Unit 4	: Global perspectives of Information Literacy Study of selected countries	10hrs
Unit 5	: Guidelines and Standards for Information Literacy Programmes ALA and ACRL; Information Literacy Competencies: Current trends and recent research in Information Literacy	10hrs
Unit 6	: Current Trends in Information Literacy	10hrs



LS 502: INFORMATION SERVICES

- Unit 1 : Information Services: Need, Importance, Definitions; Reference Service: Concept, Definition and types, Reference interview. **10hrs**
- Unit 2 : Current Awareness Services (CAS) & Selective Dissemination of Information (SDI) services, Translation Services and Document Delivery Services. **10hrs**
- Unit 3 : Indexing Services, abstracting services **10hrs**
- Unit 4 : Information Users and their Information Needs, Categories of Information Users Information Needs: Definition and Models, Information Seeking Behavior, User Studies: Methods, Techniques and Evaluation **10hrs**
- Unit 5 : User Education, Objectives of user education, Technique and methods of user education programme, Case studies of user education programs **10hrs**
- Unit 6 : Study of Information systems and Programmes: NISCAIR, DESIDOC, SENDOC, NASSADOC, MEDLARS, INFLIBNET **10hrs**
- Unit 7 : Knowledge skills and Techniques required for Professionals to deal with Print, non Print, and electronic forms of Information System. **10hrs**



LS 503: MANAGEMENT OF LIBRARIES AND INFORMATION CENTRES-II

- Unit 1 : Planning of Library and Information Centres, Planning: Macro Planning and Micro Planning. Steps in planning Library and Information Centres. **09hrs**
- 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 **09hrs**
- Unit 3 : Financial Management: Sources of Finance, Resource mobilization Budget, Types of Budget, Budgeting Techniques, PPBS. Zero based budgeting etc. Budgeting control, cost benefit analysis **09hrs**
- Unit 4 : Publicity and Public Relations – need, importance and methods. Library Extension Activities, Librarians as PRO **09hrs**
- Unit 5 : Library Building, Furniture and Equipment: planning, Design and Maintenance **09hrs**
- Unit 6 : 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 **09hrs**
- Unit 7 : Records Management Concepts and Issues. **09hrs**

LS 504: INFORMATION TECHNOLOGY – III

- Unit 1 : Database: Design, Development and Management, Database Models, Types, Data Security **09hrs**
- Unit 2 : Database Management System (DBMS): Overview, Components, History, Basic architecture, Relational Database Management System (RDBMS) - Overview, Query Languages, Examples- Oracle, MySQL, Postgres, etc.. **09hrs**
- Unit 3 : Data mining and Data warehousing: Decision Support Systems (DSS) –Types, Data Analysis and Online Analytical Processing (OLAP). Data Warehousing - Data warehouse architecture, Advantages and Disadvantages. **09hrs**
- Unit 4 : Study of WINISIS and MS-Access: System Overview, system Installation, Database Construction, Techniques, Menus, Tools and Creation of database **09hrs**
- Unit 5 : Networks: Concept, Definition, Need, Uses, Network Topologies, Types of Networks LAN, MAN and WAN. **09hrs**
- Unit 6 : Network Architecture: Comparison of Different Network Architectures, Network Protocol- TCP/IP, IPX, Network Protection and Security; Information Technology: Conceptual and Theoretical Considerations, History and Development, Impact on Libraries and Information Services **09hrs**
- Unit 7 : Web design: Web Server, Web design, Web hosting, using web graphics, medias, Design tools- HTML, Dreamweaver, CSS, Javascripts etc.. **09hrs**

LS 505: ACADEMIC LIBRARY SYSTEM

Unit 1	: Academic Libraries Meaning, Definition, Importance, Functions, Services and Types of Academic Libraries.	09hrs
Unit 2	: Higher Education and Libraries History and development of Higher education in India.	09hrs
Unit 3	: Role of UGC in development of Academic Libraries Users of Academic Libraries: Types of users and their needs; User study: Need, importance and techniques. User Education	09hrs
Unit 4	: Collection Development in Academic Libraries Types and character of Academic Library collection; Acquisition of Documents: Selection, Policy and procedures, Maintenance; User participation in collection development. Information Technology Impact. Problems of Collection development	09hrs
Unit 5	: Library and Information Services in Academic Libraries Reference Service/Referral; Library Use and Information Literacy; Documentation and Information Service; Current Awareness and SDI Service; Abstracting and Indexing Services; Information Product Development Services; Document Delivery Services	09hrs
Unit 6	Extension Activities Colloquia, Seminars, Exhibitions, Book Talks, Continuation Education Programmes	09hrs
Unit 7	Library Cooperation Resource Sharing, Networks and Consortia; International and National Scenario. INFLIBNET, DELNET	09hrs

LS 506: INFORMATION TECHNOLOGY: APPLICATIONS (PRACTICE)

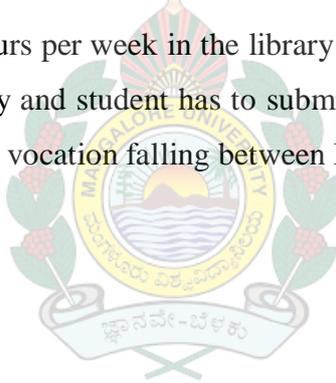
Unit 1	: Creation of Database: CDSISIS / WINISIS	10hrs
Unit 2	: CD-ROM Database Searching	10hrs
Unit 3	: Online searching: DIALOG, OCLC etc.	10hrs
Unit 4	: Internet Searching	10hrs
Unit 5	: Use of search engines Google, Yahoo etc.	10hrs
Unit 6	: Sorting and printing	02hrs
Unit 7	: Web design: Web Server, Web design, Web hosting, using web graphics, medias, Design tools- HTML, Dreamweaver, CSS, Javascripts etc..	10hrs

LS 507: SEMINAR

Each student shall present a seminar on a topic assigned by the teachers **16hrs**

LS 508: WORK EXPERIENCE AND LIBRARY TOUR

The MLISc students shall work 2 (two) hours per week in the library identified by the department. 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. **32hrs**



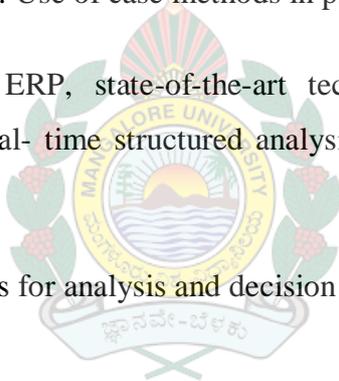
FOURTH SEMESTER

LS 551: CONSERVATION AND PRESERVATION OF INFORMATION RESOURCES

- Unit 1 : Introduction to Concepts of Archiving, Preservation and Conservation. Need and significance of Archiving, Preservation and Conservation of Information Resources. **11hrs**
- Unit 2 : Evolution of writing materials- Clay, papyrus, metallic plates, skin, parchment, vellum, palm leaves, etc. 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. **11hrs**
- Unit 3 : Different types of library materials, their preservation and maintenance: Paper Based materials - Book and Non Book materials, Library Binding, Binding Standards. Other Materials: AN records, Magnetic Plates, Tapes & Diskettes, Microforms, Optical media, Magneto Optical Discs, etc. **11hrs**
- Unit 4 : Hazards to Library materials and their preservation: Environmental Hazards, Biological Hazards and Human being as an enemy of library materials. Disaster Prevention and Recovery. **11hrs**
- Unit 5 : To Study various National Archival Initiatives of different countries: NARA of US, Australian National initiatives, Public Archives of Canada etc. **11hrs**
- Unit 6 : Records Management Concepts and Issues Involved. Information Resource Management., to include Electronic Resource Management Code of Ethics for Archivists. **11hrs**
- Unit 7 : Digital Preservation **11hrs**

LS 552 : MANAGEMENT INFORMATION SYSTEMS (MIS)

- Unit 1 : Introduction to fundamental issues of information systems (IS) **11hrs**
- 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. **11hrs**
- Unit 3 : Overview of managerial applications of information technology (IT) to increase effectiveness of organizations, cooperative work, organizational competitive advantage and inter- organizational communication **11hrs**
- Unit 4 : Introduction to Knowledge Management, Concept, Definition and Purpose of KM, Need and Scope, Historical Development, Role of KM, Impact on Society, Knowledge Management Approaches, Information Technology and Knowledge Management, Role of Information Professionals in Knowledge Management **11hrs**
- Unit 5 : Information Systems planning: Use of case methods in planning Information Systems, **11hrs**
- 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
- Unit 7 : Quantitative methods and tools for analysis and decision making.



LS 553: INFORMATION RETRIEVAL

- Unit 1 : Information Processing and Retrieval: Basic concepts, Retrieval Process: Searching, searches, strategies and techniques. **11hrs**
- Unit 2 : Indexing: Concepts, theories, methods and importance. Indexing languages: Vocabulary control, semantics and syntactics. **11hrs**
- Unit 3 : Indexing Systems: Pre-Coordinate and Post coordinate. PRECIS, POPSI, KWIC, UNITERM Indexing, Citation indexing. **11hrs**
- Unit 4 : Thesauri and Subject Headings – Design and construction **11hrs**
- Unit 5 : Evaluation of Indexing Systems: Recall and Precision, Coverage and Currency, ASLIB, MEDLARS, Evaluation studies. **11hrs**
- Unit 6 : Bibliographic Description: Concept, Historical Development, Standards for Bibliographic record format- ISBD, MARC 21, ISO 2709 and CCF etc. **11hrs**
- Unit 7 : International Bibliographical Control, Universal Bibliographical Control, Role of International Organizations, Standards and Cooperation. **11hrs**



LS 554: INFORMATION TECHNOLOGY-IV

- Unit 1 : Telecommunication: Signals: analog/digital. Transmission media - Pair of wires, Coaxial, Optic fibers, Satellite communication, VSAT, Microwave, Wireless application Protocol (WAP) / Wireless Local Loop (WLL), Bandwidth, Networks Interface Cards, Hub/Switches. **11hrs**
- Unit 2 : CD-ROM Technology: Origin, History, Development and Impact, Retrieval Software, CD-ROM Networking and Applications, CD-ROM Publishing. **11hrs**
- Unit 3 : On-Line & Off-Line Database: Study of Selected On-Line and Off-line databases in Science & Technology, Social Science, Humanities and Other fields. **11hrs**
- Unit 4 : Communication Networks and Library Networks: NICNET, I-NET, BSNL, and ERNET etc., Library Networks - INFLIBNET, CALIBNET and DELNET etc.. **11hrs**
- Unit 5 : Network based Services: Document Delivery Services, On-line Service, and Teleconferencing etc. **11hrs**
- Unit 6 : Internet: History, ISP, Internet Tools and Services, Electronic resources available on the Internet, WWW, E-Mail, Telnet, FTP, Internet Relay Chat **11hrs**
- Unit 7 : Search Engine, Gopher, Archie, Veronica, WAIS, Usenet/List Forum, PING, Web sites, Browser, Blogs, etc., Regulation of Cyber Laws. **11hrs**

LS 555: INFORMATION PROCESSING: AACR–NON BOOK MATERIALS (PRACTICE)

Cataloguing of Non Book materials according to the latest edition of AACR **64hrs**

LS 556: DISSERTATION: **64hrs**

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

LS 557: SEMINAR

Each student shall present a seminar on a topic assigned by the teachers **16hrs**

REFERENCES:

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