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SCHEME OF EXAMINATION & SYLLABUS of Master of Library &Information Science (M.Lib. & I.Sc.)

for Semester System Examination

Session 2022-23

(Approved by Board of Studies) Effective from July 2022

Structure of M. Lib. I. Sc. Programme

FIRST SEMESTER

Total Credits - 20

Paper	Subject	Internal Marks	External Marks	Credits
1	FOUNDATION OF INFORMATION SCIENCE	20	80	4
П	KNOWLEDGE ORGANISATION & INFORMATION PROCESSING	20	80	4
Ш	RESEARCH METHODS & STATISTICAL TECHNIQUES	20	80	4
IV	MANAGEMENT OF LIBRARY & INFORMATION CENTRES/INSTITUTION	20	80	4
V	INFORMATION PROCESSING AND RETRIEVAL (PRACTICE-I)	20	80	4
Total		100	400	20

SECOND SEMESTER

Total Credits - 20

Paper	Subject	Internal Marks	External Marks	Credits
VI	INFORMATION RETRIVAL	20	80	4
VII	TNFORMATION SOURCES, PRODUCTS AND SERVICES	20	80	4
VIII	INFORMATION TECHNOLOGY: BASICS & APPLICATIONS	20	80	4
IX-A	MANAGEMENT INFORMATION SYSTEMS.	20	80	4
Х	INFORMATION PROCESSING & RETRIVAL (PRACTICE – II)	20	80	4
Total		100	400	20
Total Marks of Semester I & II		200	800	40

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FIRST SEMESTER

Learning Outcomes and Syllabus Contents of Each Course Paper-I FOUNDATION OF INFORMATION SCIENCE

Learning Outcomes:

After studying this paper, students shall be able to:

- Comprehend the concept of information and the discipline of Library and Information Science.
- Understand the concept of use of Information and communication channels.
- 3. Understand the Information user & their needs.
- 4. Know about the International and national programs and policies
- Understand the Information products: Nature, concept, types, design and development and marketing.
- 6. Understand the Economics of Information.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

UNIT-1: Information Science-

- Definition, Scope, Objectives, Genesis and development.
- Information Science as a discipline and its relationship with other subject fields.
- Information industry- Generators, Providers and intermediaries.

UNIT-2: Information and communication-

- Information: Characteristics, Nature and use of information.
- Conceptual difference between data,
- Information and Knowledge.
- Communication of Information.
- Information generation and diffusion.
- Communication channels and barriers.

UNIT-3: Information and the state-

- Policies relating to information including science and technology and education.
- International and national programs and policies (NAPLIC)
- IT and library.

- UAP, UBC
- Laws relating to information with special reference to India. Including press and registration act. Delivery of books (public Libraries) Act, Copyright Act.

UNIT-4: Information user & their needs-

- Categories of information users.
- Information needs: definition and models.
- Information seeking behavior.
- Methods and techniques of user studies.
- Evaluation of user studies.

Unit-5: Information products-

- Information products: Nature, concept, types, design and development and marketing.
- Economics of information.
- Information management.
- Knowledge management.

Paper-II KNOWLEDGE ORGANISATION & INFORMATION PROCESSING

Learning Outcomes:

After studying this paper, students shall be able to:

- 1. Know about different types of subjects and their modes of formation of subject.
- 2. Understand the standard schemes of library classification and its features and application.
- 3. Know about canons and normative principles.
- 4. Understand choice of schemes of classification.
- 5. Elucidate various facets of notation and call number.
- Understand the design and development of a Scheme of library classification.
- 7. Understand the Postulates and Principles of for facet sequence
- 8. Know about recent trends and development of classification.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

UNIT-1: Universe of Knowledge-

- Structure and attributes.
- · Modes of formation of subjects.

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- · Different types of subjects and their modes of formation
- Universe of Knowledge as mapped in different schemes of classification.

UNIT-2: Methods of knowledge organization-

- · Canons and normative principles of sayers and Ranganathan of classification.
- Species of Library Classification schemes.
- Standard schemes of library classification; Introduction, features and application-CC, DDC, & UDC.

UNIT-3:

- · Universal and special schemes of classification.
- Abstract classification.
- · Choice of schemes of classification.
- Study of categories postulated by different classificationists for grouping ideas.
- · Postulates & Principles for facet sequence,
- · Telescoping of facets.

UNIT-4: Notation-

- Notation: Types, Structure & qualities, canons of notation.
- Mnemonics- Types and canons
- Indicator digits.
- Zone analysis and sector notation.
- Canons for book classification.
- Systems of book number.

UNIT-5: Recent Trends & Developments-

- Design and development of a Scheme of library classification.
- Role of DRTC, CRG and FID.
- Contribution of International Conferences towards classification research.
- BSO: Salient features.

Paper-III RESEARCH METHODS & STATISTICAL TECHNIQUES

Learning Outcomes:

After studying this paper, students shall be able to:

1. Know about research: concept of research and process of research.

- Understand the research design and Identification and formulation of problem of research.
- 3. Understand the hypotheses, testing of hypotheses.
- 4. Know about research methods, tool and technique.
- 5. Understand Data analysis and Interpretation, tabulation and generalization.
- 6. Understand the design and development of content analysis.
- 7. Understand the Citation-theory and analysis.
- 8. Understand Designing research proposal.
- Understand the citing bibliographical references.
- Know about current trends in library and information science research.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

UNIT-1: Research-

- · Research: Concept, Meaning, need and process of research.
- · Types of Research-Fundamental and Applied.
- Research Design-Types of research design, Identification and formulation of problem, Hypotheses.

UNIT-2: Research methods-

- Research Methods- Scientific, Historical, Descriptive, Survey and case study methods, Experimental method and Delphi Method.
- Research techniques & Tools- Questionnaire, Schedule interview, Observation and sampling techniques.

UNIT-3: Data analysis and Interpretation-

- · Descriptive Statistics- Measures of central tendencies- Mean, Median, Mode.
- Tabulation and generalization.
- Standard Deviation and Correlation.
- Testing of hypotheses.

UNIT-4: Bibliometrics, Informatrics & Scientometrics-

- Bibliometrics, Informatrics & Scientometrics: Concept definition and their scope
- Bibliometrics laws- Bradford, Zipf, Lotka.
- Content analysis,
- · Sociometry.
- Citation studies- Citation-nature and definition, Citation-theory and analysis.
- Offset weight age formula of Sengupta.

UNIT-5: Research reporting- Designing research proposal-

- Structure, Style, Contents & Guidelines for Research reporting.
- Standards for citing bibliographical references (Like Chicago manual, MLA & Indian standards)
- · Current trends in library and information science research

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Paper-IV MANAGEMENT OF LIBRARY & INFORMATION CENTRES/INSTITUTION

Learning Outcomes:

After studying this paper, students shall be able to:

- 1. Understand the concept of management.
- 2. Understand the function and Principles of Scientific Management,
- 3. Know the Organization structure, Job analysis and description; Job evaluation.
- 4. Understand motivation theory.
- 5. Understand budgeting technique & methods
- 6. Know the role of libraries in the development of various aspects of society.
- Understand the routine work- acquisition, processing, management, maintenance, and dissemination of information and information sources.
- 8. Understand Financial Management, Budgeting technique & methods.
- Assess the role of national and international library associations and organizations.
- 10. Know about the Total Quality Management and SWOT analysis.
- 11. Understand the Strategic management: objectives. Policies process & models.
- 12. Know about Collection development and managing change.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

UNIT-1 Management

- Management styles and approaches.
- Management schools of thought.
- Functions and Principles of Scientific Management.
- Human Resource Management- Organization structure, Job analysis and description; Job evaluation, Motivation.

UNIT-2 Financial Management-

- Resource mobilization.
- Budgeting technique & methods; PPBS. Zero based budgeting etc. Budgetary control.
- Cost effectiveness and cost benefit analysis.
- Total Quality Management (TQM)- Definition, Concept & elements of TQM and quality audit.

UNIT-3 System Analysis and Design-

- · System- definition, Concept and characteristics.
- · Library as a system.

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- Project management,
- · PERT/CPM.
- · Decision tables.
- · DFD (Data Flow Diagram).
- · Work study: Flow chart, Gantt chart, Block diagrams.

UNIT-4 Planning-

- Concept, Definition, Need, Purpose, Types, Policien and Procedures.
- MBO,MBE
- Strategic management- Definition objectives. Policies process & models of strategic management.
- SWOC analysis.

UNIT-5 Managing Change

- · Concept of change: changes in procedures, method.
- Use of new tools and techniques;
- · Techniques of managing change.
- · Collection development and management- Policies and procedures.
- Time and motion study.

Paper-V INFORMATION PROCESSING AND RETRIEVAL (PRACTICE-I)

Learning Outcomes:

After studying this paper, students shall be able to:

- 1. Construct class numbers for documents with simple, compound and complex subject.
- Synthesize class numbers by using the standard subdivisions/common isolates/auxiliary tables.
- 3. Compile book numbers and be able to use index of the classification scheme.
- 4. Discuss the Steps in practical classification.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

Classification of titles/documents by Colon Classification (6 th Rev. Ed.) and UDC (Medium Edition).

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SECOND SEMESTER

Paper-VI INFORMATION RETRIEVAL

Learning Outcomes:

After studying this paper, students shall be able to:

- 1. Understand the concept of library catalogue.
- 2. Know about the subject analysis and representation.
- 3. Know about subject headings using sears list of subject heading etc.
- 4. Understand the Indexing language and vocabulary control.
- Know about the coordinate indexing system.
- Understand the Standards for Bibliographical Description like AACR-2, ISBD, MARC (Format), CCF.
- 7. Know about Information Retrieval Systems.
- 8. Understand the principles & methods of searching.
- 9. Know about IR through OPAC and Internet.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

UNIT-I: Subject analysis and representation-

- Problems of subject analysis and representation.
- · Contributions of cutter, Ranganathan, Farradane and Coates.
- Principles of subject cataloguing- Assigning subject-Headings using library of Congress subject headings and sears list of subject heading etc.

UNIT-II: Indexing language and vocabulary control-

- Indexing languages- Types and characteristics.
- Vocabulary control- Tools of vocabulary control.
- · Thesaurus-Structure and construction of an IR Thesaurus. Thesaurofacet.
- Trends in automatic indexing.
- Recall and Precision devices in indexing languages.

UNIT-III: Indexing systems-

- Pre coordinate and post coordinate indexing system.
- Outline study of the following indexing systems.
- · KWIC, KOWC.
- Chain Indexing, PRECIS, POPSI.
- Uniterm indexing, Citation indexing.
- Standards for Bibliographical Description: AACR-2, ISBD, MARC(Format), CCF.

UNIT -IV: Information Retrieval Systems-

- Definition, Types, Components and operational stages of IRS.
- Information Retrieval- Data Base, Information base and SQL, IR Models.
- Search Process- Principles & methods of searching.

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Search Techniques- Boolean scarches On-line searching techniques and retrieval.

UNIT-V: Information retrieval systems evaluation.

- Projects and parameters.
- · Important test results- Cranfield, Medlars, Smart.
- Information retrieval through optical media and CD-ROM data base.
- · IR through OPAC and Internet.

Paper-VII INFORMATION SOURCES, PRODUCTS AND SERVICES

Learning Outcomes:

After studying this paper, students shall be able to:

- 1. Understand the documentary sources of information.
- Understand, identify and explore the different types of information sources like print, non-print including electronic nature.
- 3. Know about hibliographic and referral services.
- Understand the information products- Nature, Concept, Types, Design and marketing Abstracting
- 5. Know the users education: technique and methods.
- Understand resource sharing.
- Understand library networking.
- 8. Know about the international information system and network.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

UNIT-I: Information sources-

- Documentary sources of information.
- · Print, Non-print including Electronic Nature.
- Characteristics, Utility and evaluation of different types of information sources.
- Non Documentary Information sources; Human and institutional Nature, Types, Characteristics and utility.
- Internet as a source of information.

UNIT-II: Information services-

- Information services- Concepts, Definition need and trends.
- Techniques and evaluation of alerting services (CAS & SDI).
- Bibliographic, Referral.
- Document delivery and translation services.

UNIT-III: Information Products-

- Information products- Nature, Concept, Types, Design and marketing. Abstracting.
- Types and guidelines in preparing abstracts.

 Study and evaluation of important abstract periodicals information analysis, Repackaging and consolidation.

UNIT- IV: User Educations-

- · Goals and objectives, Levels, Technique and methods.
- Reference interview and search techniques.
- Resource sharing and library networking.
- Study of Indonet, Inflibnet, Calibnet, Nicnet, Delnet, Adinet, Malibnet.

UNIT-V:

- International information system and network.
- AGRIS, BIOSIS, CAS Scrinder, DEVSIS, ICSU, INIS, INSPEC, MEDILARS.

Paper-VIII INFORMATION TECHNOLOGY: BASICS & APPLICATIONS

Learning Outcomes:

After studying this paper, students shall be able to:

- 1. Understand the structure of computer and functions of its various units.
- Know about create, edit and manage files using Word processing and Power Point Presentation software.
- 3. Understand the hardware and software.
- 4. Understand Internet-Basic features and tools.
- 5. Carry out library housekeeping operations using library management software.
- Find bibliographic information from Web OPAC.
- Understand the using library management software.
- 8. Know about library and information networking.
- 9. Know about data base management system.
- 10. Understand the digital libraries.
- 11. Examine the concept of library networks and highlight their types and importance.
- Understand automation of in-house operations- Acquisitions, Cataloguing, Circulation, OPAC, Bar-coding.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

UNIT-I Information Technology-

- Definition, need, scope and objectives.
- Historical background of computers.
- Generation of computers.
- · Architecture CPU, Input/output devices.
- · Hardware and software.
- Operating system-Ms-windows, UNIX, MS-DOS.

UNIT-II Networking-

- · Types of networks-LAN, WAN, MAN,
- Local Area Networks; LAN Topologies, Network Hardware-Network interface card, hubs/switches.
- Getaways/Bridges, routes, modem.
- Network Protocols- TCP/IP, Net-BUI, IPX.

UNIT-III Internet-Basic features and tools-

- Connectivity- Dialup, Leased lines, Microwave, ISDN.
- Digital Subscriber Lines (DSL).
- E-mail-Protocols- Telnet, FTP, DTTP. Web browsers, Web servers, Search Engines, Keta Search,
- Web design- SGML, HTML, DHTML and XML.

UNIT-IV Data Base Management System-

- Models-Hierarchical, Network, Relational and object oriented.
- Software-CDS/ISIS, SOUL.
- Structure Query Language, Artificial Intelligence.
- Digital libraries- definition, characteristics & attributes,
- · Storage media formats- DVD.

UNIT-V Library Automation-

- Planning and implementation of library automation.
- Automation of in-house operations- Acquisitions, Cataloguing, Circulation, OPAC Burculaing, Serial Control.

Paper- IX (A) MANAGEMENT INFORMATION SYSTEMS.

(Any one of the following)

Learning Outcomes:

After studying this paper, students shall be able to:

- Understand the management information system.
- 2. Know about MIS features, approaches.
- 3. Understand the MIS Systems analysis; Systems design.
- Understand the management reporting system.
- Understand the Decision Support Systems (DSS);
- 6. Understand the Office Automation Systems (OAS);
- Understand the Knowledge Based Systems.
- 8. Understand the Internet and intranet -Basic features and tools.
- 9. Understand the using library management software.

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- 10. Know about library and information networking.
- 11. Know about data base management system.
- 12. Understand the data communication.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

- IX-A Management Information Systems.
- IX-B Business Information Systems.
- IX-C Biotechnology Information Systems.
- IX-D Health science Information Systems.
- IX-E Agricultural Information Systems.
- IX-F Social Science Information Systems.

(Note- In the initial stage only one information system, i.e. "IX-A; Management information Systems" is being implemented.)

Paper - IX ELECTIVES; Information Systems (Any one of the following)

UNTI-L

- Delinition, concepts, elements and objectives of M.I.S.
- Information and management effectiveness.
- Information needs and management levels.
- Features of MIS system approach to MIS.
- Properties of MIS.

UNIT-II

- Structure of MIS.
- MIS and decision making.
- Planning for MIS-Systems analysis; Systems design.
- Techniques of system analysis; Techniques for MIS planning.

UNIT-III: Information Support System-

- Management reporting systems (MRS);
- Decision Support Systems (DSS);
- Office Automation Systems (OAS);
- Knowledge Based Systems.

UNIT IV: Functional Informational Systems-

- Financial Information Systems: Marketing IS; & Human resource IS.
- Implementation, Evaluation & Maintenance of MIS.

UNIT V

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- · Role of Computer in MIS.
- Data Base Management.
- Data Base Software-Software needs selection and development.
- Data communication and networking.
- · Using Information superhighways- Internet and Intranet.

PAPER- IX-B Academic Library and Information System

Unit - 1 Academic Library

- · History and Development of Libraries with special reference to India
- Role of Academic Library in Education
- · Academic Library as a support System for Education

Unit - 2 Development of Academic Library

- · Role of UGC in Promoting Academic Libraries, University College and other Institutions
- Role of library authorities of the Institutions in Promoting Library Resources
- Development of Library Services
- Financial Management of Academic Libraries

Unit - 3 Collection Developments

- Collection Development Policy, Weeding policy
- Problems in Collection Organization in an Academic Library
- Collection Development Programmes, Allocation of Funds to Collection Procurement,
- Curriculum and Collection Development
- Library Committees and their Role in Collection Development

Unit - 4 Staffing and Staff Development for Academic Library

- Norms and Patterns for Staffing in University. College and School Libraries
- Continuing Education Programmes for Academic Library Development
- Personal Management in Academic Library

Unit - 5 Resource Sharing Programmes

- Resource Sharing Services its Objectives, Organization and Development
- INFLIBNET and its Implications to Library Resource Sharing
- Regional and City Network of Libraries and their Importance

PAPER- IX-C Archival, Museum and Archaeological Information System

Unit - 1 History and Development

- History and Development and types of Archival Centers
- · Kind and identification of Archival material

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Unit-2 Organisation and Management of Archival and Manuscripts

- · Acquisition, Classification, Cataloguing and Indexing of Archival material
- · Source material on Archival, Manuscripts
- Machine Readable and Microfilm of Archival records
- Database and Digitization of Archives
- Role of UNESCO and other agencies

Unit -3 Environment Control

- Building Design
- · Planning and furniture and Fillings
- · Use of Copy Right to information in relation to archives

Unit - 4 Preservation of Archives

- Objective and Purpose
- Cause of Deterioration
- · Environmental Pollution: Physical, Chemical and Atmospheric
- · Biological enemies of materials : Mould , Fungi , Insect and Rodents

Unit - 5 Rehabilitation of Documents

- Cleaning, removal of Stains
- Fuming and deacidification
- Repair and restoration techniques
- Lamination
- Standards for Storage Conditions

PAPER- IX-D Agricultural Information System

Unit - 1 Agriculture Education and Agriculture Libraries

- Growth and development of Agriculture education and research in India
- Role of Library in Agricultural education, research and Extension
- Development of Agriculture Library in India

Unit - 2 Information Source and Services in Agriculture

- Specialized Collection and Information Sources
- Information Service and products in Agricultural Science and Technology with
- Special reference to India
- Agriculture Information Centers National and International

Unit-3 Organization and Management of Resources

- General Principle of Information Management
- · Information Organization, Processing and Dissemination
- Developing need based and on Demand Specialized Services

Unit - 4 Information Needs

- · Identifying special need of Agricultural faculty & research Staff
- User Studies of Local Agriculture Libraries

Unit - 5 Agriculture Information System and Networks

- Current Trends in agricultural System and Networks
- Resource Sharing and Networking in Agricultural Libraries in India.
- International Agricultural Database
- Professional Associations.

PAPER- IX-E Legal Information System

Unit- I Law Librarianship

- · Growth and Development of legal Institutional in India
- Nature Principle and Characteristics of legal Information and Law Libraries
- Type of Law Library

Unit - 2 Information Source Collections

- Special Information Sources: Bills, Acts, Books, Serials, Law Court notice,
- · Law case amendments
- · Tribunal Report, Law Digests, Legal Judgment, Delegation Legislation
- Rules and orders , Legal information Sources and Lexicons

Unit - 3 Organizations and Management of Resources

- Information Processing: Classification, Cataloguing and Indexing
- Developing special skills and Techniques to handle legal information (personnel)
- Managing finance: Funds & Fund Generation

Unit - 4 Information need and services

- Special needs of lawyers and legal Professionals
- Study of Law Information Centers (Local)
- · Special Services, Planning and design
- Preparation of rapports on Law Libraries (Local)
- Dissemination methods and techniques

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Unit - 5 Legal Information System & Networks

- · Legal information System :National and International
- Structure and their services
- Legal Database and Digital Libraries
- Resource and Networks of Legal Information

PAPER- IX-F Industrial Information System

Unit - 1 Growth and Development of Industries & Industrialization Libraries

- Industrial Growth in India
- Type of Industries: Government and Non-Government.
- · Role of Libraries and Information Center in Industries
- Categories of Industrial Libraries

Unit - 2 Industrial Information Resource Collections

- Tread Literature
- Patents
- Standards
- Technical Reports Bulletins

Unit - 3 Organizations and Management of Industrial Information

- Special Classification Scheme and Indexing System
- Planning and Designing Specialized information services and Products
- System approach to Planning and Design and Implementation
- Managing personal Skills and Finance

Unit - 4 Information needs and Services of Industrial Libraries

- Special Classification Schemes and Indexing System
- Case Studies and field Experience of local Industries
- Preparation of Report of an Industrial Library Survey (Local)
- Marketing of Information
- Computerized Information Service

Unit - 5 Industrial Information System and Network

- Industrial Information Centers and Networks National and International
- (SENDOC).
- Structure and their services
- Industrial Databases
- Resource Sharing and Networking of Industrial Information Centers in India

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PAPER – X INFORMATION PROCESSING & RETRIVAL (PRACTICE- II) (AACR-2)

Learning Outcomes:

After studying this paper, students shall be able to:

- 1. Use the catalogue codes and standards.
- 2. Understand the concept of library catalogue.
- 3. Know about the main and added entries of library catalogue.
- 4. Know about various inner and outer forms of library catalogue.
- 5. Understand various approaches of deriving subject headings.
- 6. Prepare catalogue entries for various types of information sources.
- 7. Derive subject headings using various methods and tools.

Full Marks: 100 (Theory: 80, Internal Assessment: 20) Pass Marks 36%

Cataloguing of Publications by AACR-2