

Atal Bihari VajpayeeVishwavidyalaya,Bilaspur Chhattisgarh



Scheme and Syllabus

of

Master of Library and Information Science (M.Lib & I.Sc)
W.e.f. Acedemic Session 2021-2022

(As approved by academic council and executive council in	its
meetings held respectively onand)

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Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur

Master of Library and Information Science W. e. f. Academic Session 2021-22

FIRST SEMESTER

Paper	Subject	Internal Marks	Externa Marks
MLI	FOUNDATION OF INFORMATION SCIENCE	20	80
MLII	KNOWLEDGE ORGANISATION &	20	80
	INFORMATION PROCESSING		00
MLIII	RESEARCH METHODS & STATISTICAL	20	80
	TECHNIQUES		80
MLIV	MANAGEMENT OF LIBRARY &	20	80
	INFORMATION CENTRES/INSTITUTION		90
MLV	INFORMATION PROCESSING AND	20	80
	RETRIEVAL (PRACTICE-I)		100
	Total	100	400

SECOND SEMESTER

Paper	Subject	Internal Marks	External Marks
ML VI	INFORMATION RETRIVAL	20	80
ML VII	INFORMATION SOURCES, PRODUCTS AND SERVICES	. 20	80
ML VIII	INFORMATION TECHNOLOGY : BASICS & APPLICATIONS	20	80
ML IX_A	ELECTIVES; INFORMATION SYSTEMS (Any one IX - A to IX - F)	20	80
ML X	INFORMATION PROCESSING & RETRIVAL (PRACTICE – II)	20	80
Total		100	400
To	otal Marks of Semester I & II	200	800

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Paper-I FOUNDATION OF INFORMATION SCIENCE

M.M 80 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.

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PAPER-II KNOWLEDGE ORGANISATION & INFORMATION PROCESSING M.M. 80 Pass Marks 36%

UNIT-1 Universe of Knowledge-

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

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PAPER-III RESEARCH METHODS & STATISTICAL TECHNIQUES M.M. 80 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 M.M. 80 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.
- · 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.
- SWOT 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-1)

M.M. 80 Pass Marks 36%

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

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PAPER-VI INFORMATION RETRIVAL

M.M. 80 Pass Marks 36%

UNIT-ISubject 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.
- Search Techniques- Boolean searches 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.

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PAPER-VII INFORMATION SOURCES, PRODUCTS AND SERVICES.

M.M. 80 Pass Marks 36%

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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, DEVSIS, ICSU, INIS, INSPEC, MEDLARS.

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PAPER-VIII INFORMATION TECHNOLIGY: BASICS & APPLICATIONS

M.M. 80

Pass Marks 36%

UNIT-II 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 Bar-coding.

PAPER- IX ELECTIVES; INFORMATION SYSTEMS (Any one o the following)

- IX-A Management Information System.
- IX-B Academic Library and Information System.
- IX-C Archival, Museum and Archaeological Information System.
- IX-D Agricultural Information System.
- IX-E Legal Information System.
- IX-F Industrial Information System.

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Paper – IX ELECTIVES; Information Systems (Any one of the following) PAPER- IX-A MANAGEMENT INFORMATION SYSTEMS.

FM 100(Theory 80 + Internal Assessment 20)

Pass Marks 36%

UNTI-I

- Definition, concepts, elements and objectives of M.J.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

- 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.

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PAPER-IX-B

Academic Library and Information System FM 100(Theory 80 + Internal Assessment 20)

Pass Marks 36%

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 FM 100 (Theory 80 + Internal Assessment 20)

Pass Marks 36%

Unit - 1 History and Development

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

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 FM 100 (Theory 80 + Internal Assessment 20)

Pass Marks 36%

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

Information Source and Services in Agriculture Unit - 2

- 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.

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PAPER- IX-E Legal Information System FM 100 (Theory 80 + Internal Assessment 20)

Pass Marks 36%

Unit-1 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

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

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PAPER-IX-F

Industrial Information System FM 100 (Theory 80 + Internal Assessment 20)

Pass Marks 36%

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

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

M.M. 80

Pass Marks 36%

(AACR-2)

Cataloguing of Publications by AACR-2

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