University of Mysore  
Department Studies in Library and Information Science  
M.L.I.Sc. Revised Syllabus for Choice Based Credit System (CBCS) (w.e.f. 2012)  

First Semester  

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Second Semester  

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**Third Semester**

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**Fourth Semester**

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Note: Seminars, Case Study, Discussion and Round Tables etc., are all part of Tutorials
First Semester

Hard Core

Library, Information and Society

Unit -1
- Social and historical foundations of Library: Library as an institution and its evolution, Library as a socio and cultural institution.
- History of Libraries.
- Library movement in India.
- Different types of Libraries - functions, objectives, and activities.
- Role of Library in formal and informal education.

Unit -2
- Definitions and notions of Information. Contributions of Belkin, Robertson, Derwin, Ingwersen, etc.
- DIKW model (Data- Information- Knowledge-Wisdom).
- Information, Information Science, Information society.
- Information as a resource/commodity.
- Information Transfer Cycle-Generation, Collection, Storage and dissemination.
- Role of Information in planning, Management, Socio-economic development, Technology transfer.
- Communication theories and models. Barriers to communication. Levels of communications – Intrapersonal, interpersonal and mass communication.

Unit -3
- Five laws of Library Science and their implications.
- Development of Libraries in India with special reference to Karnataka
- Delivery of Books (Public Libraries) and News paper Act, 1954 and 1956, Intellectual Property Rights (IPR) and Copyright Act, Right to Information Act.

Unit - 4
- Library and Information Profession: Attributes of a profession, Librarianship as a profession, Professional ethics and qualities, Professional education and research.
- Professional associations – Objectives and functions, Role of professional associations in Library development; Regional Library associations- KALA; National Library associations - ILA, IATLIS, IASLIC ; International Library associations –IFLA, FID,ALA, SLA, and LA.
- Promoters of Library and Information services: National level - RRRLF, International level – UNESCO. Public relations and extension activities.
- National Knowledge Commission (NKC) and its role.

Selected Readings:
Information Sources

Unit -1
- Types of sources (Primary, Secondary & Tertiary (print and electronic), Human and Institutional sources)
- Primary sources: Structures and components journals; Patents; Technical Reports, Standards and Specifications; Conference proceedings; Trade literature; Theses and Dissertations.

Unit -2
- Secondary sources: Dictionaries, Encyclopedias, Yearbooks and Almanacs, Biographical sources, Geographical sources, Bibliographical sources, Abstracting and Indexing periodicals, Handbooks and Manuals, Current sources, and Statistical Information sources.
- Tertiary sources: Directories, Guides to reference sources, Bibliography of bibliographies, Monographs, Union Catalogues, Textbooks, etc.

Unit -3
- Human Sources: Technological gatekeepers, Invisible colleges, Information consultants, Experts/Resource persons, Representatives of firms, Personal home pages, common men (priest, village head, postman, receptionist, etc.) and others.
- Institutional / Organisational Sources: Government, Ministries and departments, R&D organizations, Learned societies, Publishing houses, Press, Broadcasting stations, Museums, Archives, Data banks, Information analysis centers, Referral centers, Exhibitions & trade fairs. Institutional web sites, etc.

Unit -4
- Electronic sources: Internet Information resources, Databases (Bibliographic, Numeric and Full text), E-books, Open Access Resources, List servers, Subject gateways.

Selected Readings:

**Information Processing: Cataloguing - I**

**Unit-1**
- Resource description: Concepts and definition. Library Catalogue: Meaning, Definition, Need, Purpose, Objectives and functions. History and development of Catalogue codes and practices:
- Resource description standards: ISBD, AACR2R and FRBR.

**Unit-2**
- Physical forms and Inner forms of Catalogues.
- Kinds of entries (Card Catalogue to OPAC) their structure and uses. Filing rules and procedures.
- Subject Cataloguing: Design and construction, SLSH and LCSH.
Unit-3
- Resource sharing of bibliographic data: Meaning and importance. Centralized Cataloguing, Cooperative Cataloguing, Cataloguing at Source, CIP, Union Catalogues,

Unit-4
- Current developments: WebOPACs, and Z39.50,
- Metadata: Meaning, Definition, Purpose, Use and types. Metadata standards: MARC-21 & Dublin Core. TEI (Text Encoding initiative), METS, TEI, EAD VRA Core etc.
- Consortia approach to metadata- OAI-PMH.

Selected Readings:

Information Processing: Classification - I

Unit -1
- Classification – Meaning, Definition.
- Types of Classification schemes. Understanding the concept of and schemes in Knowledge Classification. Knowledge Classification vs. Library Classification. Understanding the Knowledge Classification Systems such as Vedic Classification, Greek Classification. General theory of Library Classification.
**Unit 2**
- Universe of subjects – Concept, Definition, Structure, and Attributes of subjects. Spiral of Scientific Method; Modes of Formation of Subjects, Different types of subjects. Universe of Knowledge as mapped in different schemes of Classification. Call number and its structure.

**Unit 3**
- Fundamental categories: Facet analysis and facet sequence, Phase relations, Common Isolates.
- Notational system: Meaning, need, functions and types, mnemonics, Hospitality in array and chain, Devices.
- Classification schemes: Standard schemes of Classifications and their features: CC, DDC, and UDC.
- Major contributions of Ranganathan to Classification theory.
- Design and development of schemes of Library Classification.

**Unit 4**
- Trends in Library Classification, Thesaurofacet, Classaurus, Automatic Classification, Classification in online systems, Web Dewey.

**Selected Readings:**
Cataloguing of simple documents according to AACR2R, 2002/RDA and assign subject headings using at least one standard list of subject headings.

Unit -1
- Cataloguing of single author and joint authored books.

Unit -2
- Cataloguing of edited books, multivolume books, and pseudonymous authors.

Unit -3
- Cataloguing of uniform titles and serials publications.

Unit -4
- Cataloguing of corporate authors: Government publications, Institutional publications, Society publications, Conference/Seminar proceedings, workshop materials etc.

Selected Readings:
2. MARC 21 and Related standards for Bibliographic Records. New York: LC.

Classify the documents according to Dewey Decimal Classification (Latest edition)

Unit -1
- Classification of documents representing simple subjects.

Unit -2
- Classification of documents with standard subdivisions.
Unit -3
- Classification of documents representing compound subjects

Unit -4
- Classification of documents representing complex subjects.
- Assignment of Book Number

Selected Readings:

Personality Development & Communication Skills

Unit 1

Unit 2
- Communication skills – Effective speaking. Improving vocabulary and grammar. Elements of effective speaking. Types of speaking – Briefing, teaching, lectures, speeches and others.
- Stages in the preparation - understanding the audience, audience analysis, subject , gathering materials, evaluating materials, presenting a talk, and other processes . Non-verbal communication and body language

Unit 3
- Writing skills. Principles of presentation of ideas. Techniques, skills and tools for effective writing.

Unit 4
Meetings and negotiation skills. Different types of meetings including video conferencing, conference calls. Conducting a meeting. Getting the best out of negotiation. Negotiation strategies.

Selected Readings:

Second Semester

Hard Core

Management of Libraries and Information Centres

Unit -1
- Management – meaning and definitions. Role, functions and principles of management. Schools of thought in management. Levels of management. Functions and principles of management; Application to Library and Information Centres. Organisational structure.

Unit -2
- Different functional units of Library and Information centre.
  - Acquisitions section: Functions and procedures.
  - Technical section: Functions and procedures.
  - Circulation section: Functions. Methods of charging and discharging systems.
  - Periodical section and its functions and activities.
  - Reference and customer care service.

Unit -3


**Unit -4**
- Human Resource Management: Job Analysis and Description, Job Evaluation; Inter-personal Relations; Staff selection and recruitment; Motivation, Delegation, Decision Making; Education, Training and Development; Job evaluation and Performance Appraisal; Leadership Qualities.
- Library Buildings and Equipments.
- Performance Evaluation of Library and Information Centres,
- Total Quality Management (TQM).

**Selected Readings:**

Fundamentals of Information Technology

Unit 1
- Information Technology - Concepts, Definition, Components and applications
- Historical developments, Characteristics, Applications, Generations and Classification of computer.
- Components of a computer: Central Processing Unit, Input and Output devices, Internal and external storage devices.

Unit 2
- Data representation in computers: Number systems, Binary numbers: Binary addition (1’s and 2’s complement methods), Subtraction, Multiplication and Division. Representation of integers, Fractions. Character encoding standards – ASCII, EBCDIC, ISCII and UNICODE. Issues with respect to character collation and sorting.

Unit 3
- Computer software: Types and categories
- Programming concepts: system analysis, algorithms and flow charts, Open source and proprietary software.
- System software: Purpose, Operating systems; MS-DOS, Microsoft Windows, UNIX, Linux,.
- Application software: Word processors, Spreadsheets, Presentation packages and Database Management Systems, Internet browsers, Software suites, Anti-virus programs, Sharewares, Web design tools, HTML Editors.
- File organization: Sequential, Indexed Sequential and Direct file.
Unit 4


Selected Readings:

Information Processing: Cataloguing-III

Cataloguing of non-book materials according to AACR2R/RDA and creating records using MARC21 and Dublin Core.

Unit 1
- Cataloguing of cartographic, microforms, sound recordings, motion pictures, video recordings and electronic resources by using the latest edition of AACR/RDA:

Unit 2
- Creating MARC21 records for simple print documents.
- Creating MARC21 records for simple electronic resources.
- Creating MARC21 records for complex documents – print and e-resources.

Unit 3
- Preparing Simple and Qualified Dublin Core records in HTML.

Unit 4
- Preparing Simple and Qualified Dublin Core records in XML.
- Preparing Simple and Qualified Dublin Core records in RDF.

Selected Readings:
2. MARC 21 and Related standards for Bibliographic Records. New York: LC.

Information Processing: Classification – III

Classify the documents according to Universal Decimal Classification (Latest edition)

Unit 1
- Classification of simple documents.

Unit 2
- Classification of documents using common auxiliary tables.
Unit 3
- Classification of documents using special auxiliary tables.

Unit 4
- Classification of complex documents.

Selected Readings:

Soft Core
Public Libraries and Information Centers

Unit-1

Unit-2
- Public Library Finance and Budgeting: Source of public Library finance, Administration of Budget.

Unit-3
- Public Library Services: Planning and Organization of various types of Information services to the different categories of users including the physically and mentally challenged persons and special groups: women and children. Rural Library Services; Need and importance; Library users in rural areas. Library services to rural public.
- Library publicity, exhibition, seminar, book talks, A.V. programs; Mobile Library Services; user awareness programmes. Outreach activities.
Unit – 4
- Role of national and international associations and organizations in the promotion of public Libraries. Raja Ram Mohan Roy Library Foundation, UNESCO, IFLA etc. Internet Public Library (http://www.ipl.org).

Selected Readings:

Academic Libraries and Information Centers

Unit-1
- Collection development and collection management – Book selection principles and policies, procedures and problems.

Unit -2
- Academic Library services: Virtual Reference Services, Documentation and Information services, Current awareness services, SDI services. Abstracting and Indexing services, Information product development services, ILL document delivery services. Literature survey and bibliography.
Unit 3
- Academic Library Finance and Budgeting.
- Library Buildings and Equipments.

Unit 4
  International and National scenario. Academic networks: INFLIBNET and its services and activities.
  OCLC – Its activates and functions.
- Institutional repositories: Meaning, definitions, need, and benefits. Overview of IR projects. IR software.

Selected Readings:
Industrial Libraries and Information Centers

Unit 1
- The industry – Features, Objectives, Types and structure, Industrial policies, Industrial Information and its impotence, Roles of industrial Libraries, Function and services Industrial Library. Development of Library systems in different countries such as USA, UK and India. Industrial Library users- Types, Need, User study and techniques. User education – Importance and implications.

Unit 2

Unit 3

Unit 4
- Example of industrial Library networks in different countries. Activities and services if Industrial Support Organisations and Documentation Centers- INSDOC, SIDO, SENDOC, SISI, NISSL, CSIR, UNIDO, WIPO, INPADOC, ICICI, IBID STPI, PERA. Chambers of Commerce and Industry. Professional organizations and associations, Research associations- ASLIB, IASLIC, KSIA, TECSOK. Case study of an industrial Library.

Selected Readings:
Bio-Medical Libraries and Information Centers

Unit 1

- Information services: Current Awareness Service, SDI service, Indexing and abstracting service, Literature search. Users of health Science Information.

Unit 2
- Health Science Information sources: Sources of Information - Print, Non-print and Electronic media, Institutional Sources of Information. Electronic Sources – e-journals, e-books, databases, Websites – identification, Selection and access. Open Access Sources

Unit 3
Unit 4

Selected Readings:

Corporate Libraries and Information Centers

Unit 1

Unit 2

Unit 3
- Web based Information services, Corporate librarian 2.0 and Social networks- Blogs, Twitters, Face book, Google buzz etc. for communication. Information analysis and consolidation. Packaging and delivery.

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Unit 4

Selected Readings:

Open Elective

E-Publishing

Unit-1
- Content: Types of content. Digital content types, File formats, Encoding systems ASCII, UNICODE and ISCII.
Unit-2
- Markup Languages, SGML, HTML and XML.

Unit-3

Unit-4

Selected Readings:

Digital Information Management

Unit 1
- Notion and Nature of Information: Data, Information, Knowledge and Wisdom. Information Life Cycle. Information explosion in modern world and need for Information organization.

Unit 2
- Search through general Search Engines, Search engines for scholarly literature, Meta Search Engines, Web Indexes, Advanced Search Techniques –Keyword search, Boolean operators,
Proximity search, Phrase search, Field searching, concept searching, Wild Card search, Truncation, Searching of databases, Catalogues etc.


### Unit 3


- Practical component: Searching of databases, Catalogues. Searching in general search engines and meta search engines. Studying the searching features of the search engines. Searching Proquest, Pubmed, Emerald, EBSCO, JCCC.

### Unit 4

- Technical Writing and Presentation –Tools, techniques and standards. Writing a technical paper, Making PPT. Foot notes and references. Study of citation style manuals- APA, MLA, and Chicago. Citation Machines, Automatic citation builder, Endnote, Refwork.

### Selected Readings:


Third Semester

Hard Core

Information Retrieval

Unit 1
- Information Retrieval Systems: Basic concepts, Definitions, Objectives, Characteristics, Components and functions. Functional model of an IRS.


Unit 2
- Vocabulary Control: Vocabulary control – Meaning and importance; Controlled Vs. Free text Indexing; Vocabulary control tools – Subject heading Lists, Thesauri, Thesaurofacet, Classarus. Thesaurus construction techniques. Case Study of Controlled vocabularies/ Ontologies such, ERIC, MeSH, INSPEC, UNESCO-IB, AgroVac, UMLS

Unit 3
- IR models. Concept of Ranking. : Structural models – Boolean Model, Probabilistic retrieval model, vector space model.
Unit 4

- Evaluation of IRS: Purpose; Evaluation criteria; Design of evaluation programmes; Steps of evaluation; Evaluation experiments: Overview of the Cranfield test, MEDLARS, the SMART Retrieval Experiment, The STAIRS project, TREC.

- Trends in IRS: Developments, Searching and retrieval, Full text retrieval, User interfaces, IR standards and protocols.

Selected Reading


Library Automation and Networks

Unit 1
- Automation of Library operations. Acquisitions, Cataloguing, OPACs, Circulation and Serials control.
- Application of Barcode and RFID Technology for Library Functions.
- Application of Artificial Intelligence to Library and Information Centres

Unit 2
- Network concepts: Meaning, and Definition. Digital and analogue signals, Modulation, Frequency, Spectrum, Bandwidth, Multiplexing (FDM, TDM, STDM, and WDM), Asynchronous and synchronous transmission, Transmission Modes - Simplex, Half-duplex and Full duplex channels.
- Types of computer networks: Local Area Networks – Concept, Topologies (Bus, Star, Mesh, Tree, and Ring). Wide Area Networks and Metropolitan Area Networks- Concepts, Circuit switching and Packet switching. Difference between LAN and WAN. Wireless Networks – Mobile telephones.

Unit 3
- Network architectures. OSI and TCP/IP Reference models.
- Protocols and its functions. Understanding TCP/IP.

Unit 4
- Historical Developments of Library Cooperation and Networking.
- Library Networks: Study of the functions and activities of OCLC, RLIN, BLAISE, ERNET, JANET, NICNET, INFLIBNET,DELNET, BALNET, MANLIBNET.

28
Selected Readings:
8. DRTC(1999). Library networks in India (Seminar Papers). Bangalore, DRTC, ISI.
12. http://www.inflibnet.ac.in
14. http://www.delnet.nic.in

Library Automation Software

Unit 1
- Creation of Database: CDSISIS / WINISIS.

Unit 2
- Use of Library software: Koha/Libsys/SOUL etc.,
Unit 3
- Database Searching, Webcats and WebOPACs, LC Catalog, OCLC etc. Internet Searching,

Unit 4
- Use of search engines: Google, Yahoo etc.

Communication skills – Effective speaking. Improving vocabulary and grammar. Elements of

Soft Core

Marketing of Information Products and Services

Unit 1
- Emergence of Information Society and Knowledge Society and conceptualization of Information as a Resource: as a commodity and Information economics, Economics of Information; Growth of Information Industry and Implications on Library and Information Services and Products. Trans border data flow: agencies in TBDF, types of TBDF, barriers in BDF – access, linguistic, legal, economic and cultural (Information Consolidators, Aggregators, and Consortia etc.)

Unit 2
- Marketing concepts; Corporate Mission; Marketing Strategies. Concept of Marketing in Non-profit Organizations
- Portfolio Management BCG Matrix Model; Product Market Matrix; Product Life Cycle, Pricing Information.

Unit 3
- Marketing Mix; Kotler’s Four C’s; McCarthy’s Four P’s. Packing, Branding and Advertising

Unit 4
- Marketing Information Products & Services.
Selected Readings:


Conservation and Preservation of Information Resources

Unit 1

- Evolution of writing materials: Clay, Papyrus, Metallic plates, Skin, Parchment, Vellum, Palm leaves, etc. - Their history, Nature, Use as writing materials and their preservation. History of paper making, Different types of paper and their nature.

Unit 2
- 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.

Unit 3
- Hazards to Library materials and their preservation: Environmental hazards, Biological hazards and Human being as an enemy of Library materials. Disaster prevention and recovery.
- To study various National Archival Initiatives of different countries: NARA of US, Australian National initiatives, Public archives of Canada etc.
Unit 4
- Digital Preservation

Selected Readings:

Users and User Studies
Unit 1
- Information seeking and use: Need for a conceptual framework; Need for a theory of Information seeking; the desired characteristics of the theory: integrating theories of. Information seeking with broader theories and framework study of attempts towards developing conceptual frameworks; Classification of approaches to conceptual framework; sources of theory; contributions of Mensal, Paisley, T.J. Allen, Dervin, Crane and others.

Unit 2
- Information need: Definitional and conceptual problems. Distinction between needs, wants, demands and requirements; Levels of Information need -Taylor’s model, Lancaster’s four levels, Cronin’s three levels; Koikela’s two levels of Information need; Kinds of Information needs: Continuous and Discreet needs; Application needs and Nutritional needs. Factors affecting Information need: Classification of factors, Dynamics of Information need situation; Paisley’s schema of factors, Wilson’s categorization of factors. Mick et.al’s model of factors. Taylor’s variables of Information need and contribution of others.
Unit 3
- User:-Understanding the psychology of Information user; categorization of user; Identifying users and potential users; users by professional groups-industrial, commercial etc.,
- Information use & user studies: Origin, development and evolution of user studies; the renaissance of user studies, the two generations of user studies: The first generation studies- their characteristics, contributions and limitations; The second generation user studies: Their characteristics and contributions, Landmark and bench mark studies.
- Usage study

Unit 4
- Methodology of user studies: Study of various methods and tools: Quantitative and Quantitative and Quantitative methodologies; survey methods and experimental approach; Questionnaire, interview and other traditional tools/methods: Participant observation, Diary method, time-line series method of Dervin and others; use of psychometric methods; the promise of quantitative methods and psychometric methods.

Selected Readings:
Open Elective

Web 2.0

Unit 1

Unit 2

Unit 3
- Understanding Podcasting, VODcast and Screencast. WIKIS, Mashups, Real time communications.

Unit 4
- Case studies of Web 2.0 in Libraries.

Selected Readings:

Electronic Information Sources and Services

Unit -1
- Information Sources: Concept, Types/ Kinds, Characteristic features and use. Types of sources (Primary, Secondary, Tertiary and Non- Documentary Sources)
- Evaluation of Information Sources.
Unit -2
- Electronic Information resources: Meaning and definition, Growth and development, Types.
- Free online Dictionaries, Non-free online dictionaries, Free Thesauri.
- Encyclopedia, Virtual Libraries, Subject gateways and Portals

Unit -3
- Free databases and fee based bibliographical and full text databases, subject related websites, Institutional repositories, Open Archives and digital Libraries.

Unit 4
- Components of Information System: Libraries, Documentation Centres, Information centres, Data centers, Data Banks, Museums, Memories, Publishing Houses.
- Virtual Reference Desk.

Selected Readings:

**Fourth Semester**

**Hardcore**

**Information Systems and Services**

**Unit 1**
- Information systems: Basic concepts, Meaning, Objectives and Functions.
- 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**
- Understanding the different systems and their services. Understanding the user communities- Identification of user communities; Introduction to the user centered approach to Information seeking behavior. User Education - methods and techniques. User studies.

**Unit 3**
- Study of National Documentation Centres, Information Systems and programmes- NISCAIR, DESIDOC, NASSDOC, NISSAT.
- Study of International Information Systems and programmes- CAS, INSPEC, AGRIS, BIOSIS, INIS, MEDLARS, ASINFO, COMPENDEX, ISI.
- 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.

**Unit 4**
- Information Services- Reference and Documentation Services: Introduction to references services, Examination of reference collection for various types of Libraries. Current Awareness Services


Selected Readings:


Research Methodology

Unit 1
- Foundations of research: Meaning and definition, nature, and objectives of research, Types of research, Basic concepts of research. Ethics in research. Areas of research in Library and Information Science. Role of research in the development of scholarship.

Unit 2
- Planning of research, The Planning process; Review of literature.
- Hypothesis – Meaning, Types, Sources, Functions, Hypothesis; Conceptualization;
- Research design - Essentials of good research design & its importance, Ethical aspects of research; Literature search – print, non-print and electronic sources.
- Research design / writing the research proposal.
Unit 3
- Research techniques and tools: Questionnaire - types of questions, structured and unstructured questions, Cautions regarding questions & questionnaires. Interview schedule – Types, Merits & limitations; Measurements indices, Pilot studies. Rating scales and check lists.

Unit 4
- Sampling & data collection: Sampling techniques, Sample design or choice of sampling techniques, sample size, Sampling and non-sampling errors. Meaning and importance of data, Sources of data, Types of data, Use of secondary data
- Statistical analysis of data : Descriptive Statistics – measures of central tendency, mean, median & mode; Tabulation and Generalization; measures of dispersion – Range, intermediate ranges, measures of aggregate dispersion, mean-absolute deviation, the variance and covariance , and standard deviation & normal distribution. Chi-square test.
- Graphical presentation of data and report writing: Meaning & importance, commonly used graphics forms-line graphs or charts. Histograms, Frequency polygons, Ogive bar charts, pie charts & pictogram. Sociometry, Statistical Packages – SPSS.

Selected Readings:


Digital Libraries and E-Publishing

Unit 1
- Design and Organization of Digital Library :Architecture, Interoperability, Compatibility, Protocols, standards and User Interfaces,

Unit 2
- Content creation – Electronic documents, files and file formats. Study of different file formats. Studying PDF in detail- features of PDF. Born digital and legacy documents. Digitization- scanning, OC Ring and conversion to PDF. Electronic Publishing and scholarly communication, E-journals and e-books
- Digital Preservation, Conservation and Archival Management – Problems and prospects

Unit 3

Unit 4
- Open Access Movement and Institutional repositories. Case study of select digital Libraries and IRs. California Digital Library; Alexandria Digital Library; ArXive; Cogprintis; Vidyanidhi

Selected Reading:

**Soft Core**

**Digital Library Software**

**Unit 1**
- Installation of Greenstone. Building digital collection using Greenstone

**Unit 2**
- Creating Metadata. Searching, Indexing. Modifying user interface etc. in Greenstone

**Unit 3**
- Installation of DSpace/Eprint.

**Unit 4**
- Building collection to DSpace/Eprint.

**Webometrics, Informetrics & Scientometrics**

**Unit 1**
- Basic concepts: Bibliometrics, Informetrics, Scientometrics – Meaning, definitions and scope. Historical development. Study of bibliographic organizations: ISI, NCB, NISTAD.

**Unit 2**
Unit 3
- Study of the citation concepts: citation analysis, citation network, citation matrix, bibliographic coupling, co-citation analysis, Journal Citation Reports,
- Growth and obsolescence of literature. Various growth models, the half-life analogy, determination of aging factor and half life, real vs apparent, synchronous and diachronous.

Unit 4

Selected Readings:

Project Work/ Dissertation

Candidate has to prepare a project report/dissertation under the supervision of the faculty of the department.

Open Elective

Scholarly Communication

Unit 1
- Republic of Science and Scholarship: Foundations of Science and scholarship. Principles and paradigms of scientific culture/scholarship: Historical perspective of scholarly communication systems. Scholarship and scholarly traditions.
- Study of journals, their functions, working and processes. The importance of scientific and professional societies in journal publishing; the peer review process; the migration of peer review journals from print to Web-based; Serials pricing crisis phenomena.

Unit 2
- Rise of Internet as game changer in scholarship, communication, and daily lives.
- Evolution of Internet/Electronic publishing; Web 2.0 and the emergence of Wikipedia; slideshare; You Tube; blogs and others as mainstream media. E-Science, Open Data and cyber Infrastructure.

Unit 3
- Open Access Movement: understanding OA—concepts, principles, ideology and philosophy of Open Source, Open Content; Open Educational Materials and Open Access to scientific literature; the Green and Gold route to OA. Familiarity with the people and organisations behind the OA movement.
- Study of Open source software for IR and DL: DSpace; Eprints ; Fedora ; Kete

Unit 4

Selected Readings:


### Information Literacy

**Unit 1**
- Information literacy: Meaning, Definition, Need, Evolution of the concept. Historical perspective of Information literacy.
- Types of Information Literacy: Technology literacy, media literacy, computer and digital literacy.
- Levels of Information Literacy: Entry level, Mid level, High level, Advance level. Lifelong learning and its components.

**Unit 2**
- Partners of Information literacy.
- Models of Information literacy: SCONUL model and CAUL (Australian) model.
- Guidelines and standards for Information literacy programs: ALA and ACRL.

**Unit 3**
- Information literacy programmes.
- Role of Libraries in Information literacy.
- Information literacy instructions in different types of Library and Information centers

**Unit 4**
- Current trends in Information literacy.
- Study of Information literacy programs in the world.
- Information Literacy Competencies
- Challenges facing Information literacy.

Selected Readings:

Content Management Systems

Unit 1
- Understanding content and content management systems. Roots and Branches of CMS; CMS elements, issues, and challenges; Functionality and Interaction issues; Studying Information Architecture, Content tagging and Metatoring, and Interaction.

Unit 2
- Study of CMS software packages. CMS software and platforms – Joomla, Drupal, Wordpress and Moodle

Unit 3
- Joomla and Drupal : study of features and functionalities and practical implementation

Unit 4
- Wordpress and Moodle : study of features and functionalities and practical implementation
Selected Readings:


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