Objectives

- To acquaint students with the library as a social institution for knowledge generation, creation and dissemination
- To make understanding of the philosophical and social foundations of Library and information centers.

Student learning outcomes

- The course will help in indoctrinating effective professional skills among students for successfully professionalizing modern libraries using exciting professional skills, professional association when they are going to exercise their acquired knowledge at practice level.

Unit I

1.1 Library: Basic concept with Historical foundation of libraries.
1.2 Types of libraries and their distinguishing features.
1.3 Information society: Genesis, Characteristics and implications.
1.4 Library: Role in contemporary Society.

Unit II

2.1 Five Laws of Library Science: Foundation and Implications.
2.2 Library development in India with particular reference to post Independence period.
2.3 Library legislation – Need and purpose. Library legislation in India – problems and prospects.
2.4 Intellectual Property Right: Basic Concept and issues with special emphasis on copyright Act in Indian context

Unit III

3.1 Profession: Concept and attributes.
3.2 Librarianship: Professional ethics

3.3 Professional Associations
   3.3.1 National Associations in India: ILA, IASLIC, IATLIS and SIS
   3.3.2 International and other important Associations: IFLA, CILIP (UK), ALA (USA)

3.4 Library and information Science education and research in India

Unit IV

4.1 Role of International promoters for development of Libraries:
   4.1.1 United Nations Educational, Scientific and Cultural Organization (UNESCO)
   4.1.2 Online Computer Library Centre (OCLC)

4.2 Role of National level promoters
   4.2.1 Raja Ram Mohan Roy Library Foundation (RRRLF)
   4.2.2 University Grants Commission (UGC, New Delhi)
   4.2.3 Information and Library Network (INFLIBNET) and overview of other developing networks in India

4.3 Extension Services: Concept and methods.

Suggested Readings
Jain, M K (Ed) 50 years: Library and information services in India. Delhi: Shirpa Publications.


Prasad, K. N. Intellectual property Rights. (1998). In Neelameghan, A. & Prasad, K. N (Eds.), *Information systems, Networks and Services in India*, Bangalore: Ranganathan Centre for Information Studies


**Websites (Illustrative):**

American Library Association. Available at http://www.ALA.org
Information Library Network. Available at
http://www.inflibnet.ac.in
LIS18102CR - KNOWLEDGE ORGANISATION & DISCOVERY
(Theory and Practice)
(4 Credits)

Credit Pattern

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Objectives:

- To understand the formation and expansion of universe of knowledge with a need to understand its organization.
- To be acquainted with major schemes of classification and develop skills in subject analysis and synthesis.
- To develop proficiency in using Dewey Decimal Classification to construct Class Numbers for documents of different disciplines / subjects.

Student Learning Outcomes:

- The student will be able to demonstrate an understanding of the organization and maintenance of library collection in retrieval effective manner.
- The student will be able to use standard classification tools in the effective organization of the collection holdings.

Unit I

1.1 Classification: Terminology, Purpose and Species.
1.2 Universe of Knowledge: Attributes and Representation in leading schemes of Classification.
1.3 Five Fundamental Categories, Rounds and Levels

Unit II

2.1 Modes of Formation of Subjects
2.2 Notation: Purpose, qualities and capacity increasing devices
2.3 Principles of helpful sequence (An Overview)

Unit III

3.1 Introduction to DDC with special reference to Standard Subdivisions (Table 1), Areas (Table 2), Subdivisions of Individual Literature (Table 3).
3.2 Description of Subdivisions of Individual Languages (Table 4), Racial, Ethnic and National Groups (Table 5), Languages (Table 6) and Persons (Table 7)
3.3 Synthesis of number for simple and compound subjects using DDC
Unit IV

4.1 Multiple syntheses using DDC

4.2 Derivation of Book number using Cutter Three-Figure Author Table

References


**Websites (Illustrative):**

OCLC. (2012). *DeweyDecimalClassification*. OCLC. Available at

http://www.oclc.org/dewey/

OCLC. (2012) *WebDewey*. Available at

http://www.oclc.org/dewey/resources/tutorial/
LIS18103CR-LIBRARY OPERATIONS
(4 Credits)

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Objective

➢ To acquaint with essential routines and operations performed in various types of libraries for providing effective services.

Student Learning Outcome

➢ The course will provide an in depth knowledge about various library operations for better understanding the technicalities involved in successful collection development and management in modern libraries.

Unit I

1.1 Different Operations: Mechanism and components.
1.2 Collection Development: Purpose and Policy.
1.3 Selection: Principles.
1.4 Selection tools: print and non-Print Materials.
1.5 Acquisition: Mechanism of Procurement, functions.
1.6 Problems in Acquisition.

Unit II

2.1 Technical Processing: Need, Role and procedure.
2.2 Accessioning.
2.3 Classification.
2.4 Cataloguing.
2.5 Labeling.
2.6 Shelving and Display.
2.7 Maintenance.

Unit III
3.1 Serials: Concept and types.
3.2 Serials: Selection and Procurement
   3.2.1 Planning.
   3.2.2 Selection.
   3.2.3 Ordering.
   3.2.4 Problems and Issues.
3.3 Traditional Serial Control Systems.
3.4 Automated Systems.

Unit IV
4.1 Circulation: Concept, Need and Functions.
4.2 Charging and Discharging Systems: Traditional and Modern Systems.
4.3 Care and Preservation.
   4.3.1 Common Sources of danger to Documents: Physical, Chemical and Biological factors and Preventive Measures.
   4.3.2 Digital Preservation: Concept, importance and measures.
4.4 Stock verification: Methods and Tools
4.5 Stock Evaluation and weeding.

Suggested Readings


LIS18104DCE PUBLIC LIBRARY SYSTEM

4 credits

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Objectives

- To foster the development of professional knowledge to successful public librarianship
- To educate and train about range of professional challenges associated with public library administration and management

Student learning outcome

Students will able to:

- Know the public library and its role in society.
- Understand the genesis and development of public libraries.
- Have knowledge of and can operate hassle free run public library system at different levels.
- Can offer range of public library specific services and activities.

Unit I

1.1 Public Library: Concept, Origin and Growth

1.2 Role of Library Associations and Organizations in Development of Public Library System at National: RRRLF, ILA & International Level: IFLA, UNESCO.

1.3 National Library Policy and Library Legislation

1.4 Public Library system in relation to mass education: Political, industrial, economic life, Cultural advancement and Youth Development

Unit II


2.2 Architecture Planning and Administration of Public Libraries

2.3 Collection Development and Management: Emerging Trends: E-Consortia, Free and Open Access Sources.

2.4 Public Library Norms, Standards and Guidelines
2.5 Role of Advocacy and Pressure Groups in Public Library Development.

Unit III

3.1 Library Services and Activities: From Reactive to Proactive: Conservative Services, Outreach services, Online Services etc.

3.2 Resource Sharing and Public Library Grid

3.3 Public Libraries and Internet Public Access Models

3.4 Public Library 2.0

Unit IV

4.1 Automation and ICT: Current application and future trends in public libraries

4.2 Open Source Software for Public Libraries: Features and Utilities

4.3 Designing a model Digital Public Library for

4.3.1 Children,

4.3.2 Young,

4.3.3 Old and

4.3.4 Physically Challenged

4.4 Case Study of Digital Services of Model Public Libraries

Suggested Readings


Palmour, V. E., Bellassai, M. C., & Anne Arundel County Public Library. (1980). Five year plan for


LIS18105 DCE-SCHOOL LIBRARY SYSTEM
(4 credits)
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Objectives

➢ To provide an overview of principles and practices in school library systems.
➢ To understand the challenging roles of school libraries and media specialists.

Student learning outcomes

➢ This paper will inculcate knowledge of school library system among the students so that they will be able grasp the knowledge of subject particularly to the subject/area specialized library profession.

Unit I

1.1 School Library System: Basic Concept.
1.2 Major objectives of School Libraries.
1.3 Components of School Libraries.
   1.3.1 Collection.
   1.3.2 Basic Infrastructure.
   1.3.3 Staff

Unit II

2.1 Role of School libraries in promoting and supporting Education.
2.2 Role of School Librarian.
2.3 Qualities of School Librarian.

Unit- III

3.1 Management of School Libraries.
3.2 Services provided by school library
3.3 Major Problems Faced by School Libraries.
Unit IV

4.1 Impact of ICT on School Libraries.
4.2 School Library Automation
4.3 Internet and school libraries with emphasis on important search engines for different age groups.

Suggested Readings


CBSE. School Library Accessible at

http://cbse.nic.in/LIBRARY-1-99.pdf


LIS18106DCE-ORIENTAL LIBRARY SYSTEM
(4 Credits)

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Objectives

- To understand development, emergence and collection of Oriental Libraries.
- To recognize various strategies for organization and preservation of the oriental collection.
- To understand the importance of digitization and digital preservation for the cultural treasure.

Students learning outcome

- The students will develop the proficiency to identify and handle the oriental collection.
- They will be able to recognize the appropriate methods for the organization, preservation and digitization of the said collection.
- Students will understand the problems and could offer solutions faced by oriental libraries at Global, national and regional level.

Unit I

1.1 Oriental Libraries: Concept, Growth and Development
1.2 Select Oriental Library at Global Level

Unit II

2.1 Organization of oriental literature
2.2 Metadata standards for digitized manuscripts and other oriental literature.
   2.2.1 Dublin core
   2.2.2 Encoded Archival Description
   2.2.3 TEI P5 Manuscript Description for Cataloguing Digitized Manuscripts.

Unit III

3.1 Historical perspective of Preservation and conservation
3.2 Rehabilitation of documents
3.2 Digitization: Basics & IFLA guidelines
Unit IV

4.1 Preservation of manuscripts
4.2 Preservation program of manuscripts: assessment of initiatives in India
4.3 Preservation program: challenges and issues

Suggested Readings:
Dana, John Cotton. (1907). A brief outline of the history of libraries, A.C. McClurg Harvard University
Gilgit Manuscripts. (1941). Srinagar; Oriental press;

Websites (illustrative):

Asiatic society, Available at www.asiaticssocietycal.com/
Cambridge University Library Available at
  www.lib.cam.ac.uk/
Indira Gandhi National Centre for the Arts, Available at
  www.ignca.nic.in/
KhudaBakhsh Oriental Public Library, Available at
  kblibrary.bih.nic.in/
Rampur Raza Library, Available at
  razalibrary.gov.in/
Royal Asiatic Society London, Available at
  www.royalasiaticsoociety.org/
The British Library - The world's knowledge, Available at
  www.bl.uk
LIS18107DCE-HEALTH INFORMATION SYSTEM: INTRODUCTION TO HISTORY AND POLICIES
(4 Credits)

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Objective

➢ To understand the working procedures and policies of Health Information Systems

Student learning outcomes

➢ Students will be able to formulate some new ways and means in order to cater the information needs of the health professionals

UNIT I

1.1 Health and Healthcare Information: Introduction
1.2 Health Information Systems: Overview
1.3 History and Evolution of Health Care Information System

UNIT II

2.1 Health Informatics as a Discipline
2.2 Health Informatics as a Profession
2.3 Health Information System: Models

Unit III

3.1 Health Information Technology
3.2 Information Technology Adoption & Challenges
3.3 Quality of Health Information Systems

Unit IV

4.1 Health information systems in developing countries: benefits, problems, and prospects
4.2 Public health and Web 2.0
4.3 Knowledge, Attitude and Practice of Health Information System
Suggested Readings


LIS18108DCE-INFORMATION TECHNOLOGY - THEORY

(4 credits)

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Objective

➢ To familiarize with the basic concepts and components of Information technology, software tools and database management systems useful for information management.

Student Learning Outcome

➢ The course is framed keeping in view the essence of building the theoretical IT foundation among the students in order to make them comfortable in understanding and using different operating systems, Database Management systems, Software packages etc. for implementing library automation in different setups.

Unit I

1.1 Information Technology: Foundation & components.
1.2 Computer: Genesis, Components & Functions.
1.3 Computer: Development & Generations.
1.4 Peripheral Devices:
   1.4.1 Memory: Primary and Secondary.
   1.4.2 Storage Devices, Communication Devices, Multimedia Devices.

Unit II

2.1 Operating System: Genesis, Development and Functions.
2.2 MS DOS: Introduction, Structure and Commands.
2.3 Windows: Features.
2.4 Linux: Features and brief commands.
2.5 Windows NT: Components and Features.
2.6 SERVER: Functions & Client Server Architecture

Unit III

3.1 Programming: Fundamentals.
3.2 Algorithm and Flowcharts.
3.3 Programming Languages: Tools.
3.4 Generations of Programming Languages: An Overview

Unit IV

4.1 MS-Word, MS-Excel, MS-PowerPoint.
4.2 DBMS and RDBMS: concepts, structure, applications.
4.3 MS Access: Features, design and query formulation.
4.4 Bibliographical Database: ISIS family (CDS/ISIS and WINISIS.)

Suggested Readings:


**Websites (Illustrative):**

Objective

➢ To have an understanding of various citation styles in the scholarly communication procedures.

Student learning outcome:

➢ The paper will be of great benefit to the students as it will help them to understand the philosophy of “Write & Cite” which in turn will save them the menace of plagiarism. It will also help them to change the citation tune in accordance to the changing scholarly platforms.

UNIT I

1.1 Citations and References: Definition and need
1.2 Citation and Referencing Principles
1.3 Citation Reference Styles

UNIT II

2.1 Bibliographic and Descriptive Elements of References
2.2 Prominent Citation Styles
   2.2.1 APA
   2.2.2 MLA
   2.2.3 Chicago
2.3 Citation conversions & Reference Management Tools: An Overview

Suggested Readings


Johns, J., Keller, S. J., & SourceAid, LLC. (2006). *Cite it right: The SourceAid LLC guide to citation, research, and avoiding plagiarism*. Osterville, MA: SourceAid, LLC.


LIS18001OE-OPEN SOURCE SOFTWARE
(2 Credits)

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Objective

➢ To familiarize with the basic concepts and components of Open Source software, allied tools and Open source content and database management systems used in modern IT environment.

Student Learning Outcome

➢ The course is framed keeping in view the essence of building the theoretical foundation about Open source software among the students in order to make them familiar about open source software and its use in different systems as a viable alternative to commercial software.

Unit 1 Open Source Software: Basics

1.1 Open Source: Concept and Development.
1.2 Open Source Software: Concept and Characteristics.
1.3 Open Source Software in different Setups: An overview
1.4 Open Source Software: Benefits and challenges

Unit 2 Open Source Environments

2.1 Open Source Operating Systems: Ubuntu, and FreeBSD etc.
2.2 Apache OpenOffice, LibreOffice and NeoOffice
2.3 Open Source Content Management Systems: An Overview
2.4 Open Source Database tools: MySQL, PostgreSQL and SQLite.

References

FreeBSD(2015). FreeBSD. Available at https://www.freebsd.org/


MySQL(2015). MySQL. Available at
   https://www.mysql.com/

NeoOffice(2015). NeoOffice. Available at

OpenCms(2015). OpenCms. Available at
   http://www.opencms.org/en/

Ubuntu(2015). Ubuntu. Available at
   http://www.ubuntu.com/

   http://opensource.org/

PostgreSQL(2015). PostgreSQL. Available at
   http://www.postgresql.org/

SQLite(2015). SQLite. Available at
   https://www.sqlite.org/
2nd Semester
LIS18201CR  LIBRARY MANAGEMENT
(4 Credits)

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Objectives

- To introduce principles and practices of management with particular reference to library and information centers for managing them on scientific basis.
- To use management techniques to achieve the organizational effectiveness and efficiencies in library and information centers
- To develop skills for handling effectively the library and information management routines, finances and human resource development

Student Learning Outcome

- The course will help in inculcating effective managerial skills among stakeholders for successfully managing modern libraries using vibrant human resource management techniques, financial resource management skills. It will further develop better understanding of technicalities involved in knowledge and project management for state of art service delivery in modern library settings.

Unit I

1.1 Management: Concept and Functions.
1.2 Principles of Management.
1.3 Management: Schools of thought
   1.3.1 Classical School.
   1.3.2 Behavioral.
   1.3.3 Systems approach.
1.4 Application of management function and principles to Library and Information Centres.

Unit II

2.1 Human Resource Management: Basic concept and Importance in library management context
2.2 Job Analysis and Job Description: Basic concept and Methods
2.3 Recruitment process
   2.3.1 Selection: Methods employed
2.3.2 Induction and orientation: Techniques used

2.4 Motivation: Concept and theories
   2.4.1 Maslow’s Theory of Motivation
   2.4.2 Hertzberg’s Theory of Motivation

2.5 Professional Training Development programmes: Concept, Importance and techniques

Unit III

3.1 Financial Management: Concept, Scope and Objectives

3.2 Library Budget and Budgetary Methods:
   3.2.1 Line Item or Incremental Budget
   3.2.2 Formula Budget
   3.2.3 Programme Budget
   3.2.4 Planning Programming Budgeting System (PPBS)
   3.2.5 Zero-Base Budgeting (ZBB)

3.3 Cost Analysis: Concept and Methods
   3.3.1 Cost Benefit
   3.3.2 Cost Effectiveness

Unit IV

4.1 Service Management
   4.1.2 Factors influencing the growth of services.
   4.1.3 Managing the Service quality (SERVQUAL & LIBQUAL)
   4.1.4 Understanding User response to service failure.

4.2 Knowledge Management: Techniques and applications.

4.3 Project Management: PERT/CPM

Suggested Readings


Delhi: McMillan
Oxford: Chandos Pub


LIS18202CR – KNOWLEDGE REPRESENTATION AND DISCOVERY
(Theory & Practice)
(4 Credits)

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Objective

➢ To acquaint and equip students with the principles, standards, techniques of knowledge retrieval tools in libraries and information centers especially with reference to cataloguing of documents and digital objects.

Student learning outcome

Student will be able to:

➢ Learn about different conventional and non-conventional information retrieval tools employed in library and information centers.

➢ Have know-how of different cataloguing systems viz. Centralized, Cooperative etc.

➢ Catalogue various types of information resources.

Unit-I

1.1 Library Catalogue: Definition, Need, Purpose and Functions.
1.2 Types of Catalogues: Dictionary Catalogue, Classified, Alphabetic Classed Catalogue.
1.3 Physical Forms of a library catalogue: Conventional and Non-conventional: OPAC, WEBOPAC and Co-OPAC.

Unit-II

2.1 Bibliographic Description Standards: AACR2R, RDA
2.2 Bibliographic Encoding Standards: MARC
2.3 Cooperative and Centralized Cataloguing: Objectives, different Forms with examples and Latest Trends.
2.4 Subject Cataloguing: Meaning, purpose, objectives
2.5 Principles of Subject Cataloguing: Contribution of Eminent Institutions/Authors
   )An Overview ( 

PRACTICE PART

UNIT-III

3.1 Cataloguing of Documents with Single Authorship and Editorial Works.
3.2 Shared Authorship
   3.2.1 Documents written by up to three authors Principle author not indicated
   3.2.2 Documents written by more than three authors Principle Author Indicated
   3.2.3 Documents written by more than three authors Principle author not indicated
Cataloguing of Documents with Pseudonym authorship, Cataloguing of Multivolume collections

UNIT IV

4.1 Cataloguing of Serial Publications
4.2 Cataloguing of Non-Book Material
   4.2.1 Cartographic Materials
   4.2.2 Motion Pictures and Video Recordings.
   4.2.3 Electronic and web Resources
4.3 Sears List of Subject Headings

Suggested Readings


LIS18203CR- INFORMATION SOURCES
(4 credits)

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Objectives

- To provide an overview of different categories of references and information tools in order to choose appropriate source for meeting reference queries.
- To understand the criteria for evaluation of reference and information sources (online and offline).
- To acquaint students with access options and techniques of various web based resources.

Students learning outcome:

- The students will be able to offer appropriate information source to the user on the basis of the features and utility.
- The students will be familiar with the features and use of board array of online and print sources.

UNIT I  Information Sources: An Overview

1.1 Information sources: Concept, print and online
1.2 Documentary (Primary, Secondary and Tertiary) and Non-documentary: Specialists, Experts, Consultants; etc
1.3 Evaluation: Criteria (online and offline resources)
1.4 Relate types of reference queries to their corresponding reference tools
1.5 Identification of sources of information as documentary and non-documentary in the Library and on the web
1.6 Evaluation of the select websites on the basis of standard criteria

UNIT II  Reference Sources

2.1 Dictionaries-Types and uses
   2.1.1 Language dictionaries, Major online dictionaries
2.2 General Encyclopedias (Encyclopedia Britannica, Encyclopedia Americana), Subject specific encyclopedias (Access science, etc), Free online encyclopedias
2.3 Collaborative encyclopedias, Subject oriented wikis
2.4 Visit major online reference sources and explore the available features
2.5 Identify examples of each of the following on the web
   Glossary, thesaurus and encyclopedic dictionary

UNIT III  Geographical and Biographical Sources
3.1 Directories- Institutional (Europe World of Learning, Ulrich’s periodical directory and Ulrich web, Commonwealth University yearbook

3.2 Biographical sources-utility and types (collective & individual).

3.3 Evaluation of International who’s who, Current Biography, India Who’s who

3.4 Follow various information sources on the Twitter

3.5 Register for free trial in various online reference sources

3.6 Explore biographical Services online

UNIT IV Bibliographical Sources

4.1 Bibliography- need and types

4.2 Indexing and abstracting sources in science and social science
  4.2.1 Web of science and its other select products

4.3 E-aggregators, Databases

4.4 Locate indexing and abstracting services in web of science

4.5 Visit various open access resources in varied subject fields.

Note: The list of reference tools included is not comprehensive. An exhaustive list will be furnished in the class.

Suggested Readings


**Websites Illustrative:**

Access Science from McGraw-Hill Education. Available at

[www.accessscience.com/](http://www.accessscience.com/)

DOAJ -- Directory of Open Access Journals. Available at

[www.doaj.org/](http://www.doaj.org/)

DOAB: Directory of Open Access Books. Available at

[www.doabooks.org/](http://www.doabooks.org/)

Ebook portals. Available at

[bookleads - ebook portals](http://bookleads-ebookportals.com/)

Encarta Encyclopedia. Available at


Europa World of Learning

[www.worldoflearning.com/views/advanced_search.html](http://www.worldoflearning.com/views/advanced_search.html)

Library of Congress Catalogue. Available at

[www.catalog.loc.gov/](http://www.catalog.loc.gov/)

List of online dictionaries


List of online encyclopedias


Merriam WebsterOnline. Available at

[www.m-w.com/dictionary/](http://www.m-w.com/dictionary/)

Onelook.dictionary, available at

[www.onelook.com/](http://www.onelook.com/)

Online reference sources

[http://www.library.ualberta.ca/reference/index.cfm#biographies](http://www.library.ualberta.ca/reference/index.cfm#biographies)

[http://www.lib.uchicago.edu/e/using/reference/genref.html#engdict](http://www.lib.uchicago.edu/e/using/reference/genref.html#engdict)
Oxford English dictionary
www.oed.com/

Times Atlases - home of Times World Atlases and Maps
www.timesatlas.com/

Ulrichsweb. Available at
ulrichsweb.serialssolutions.com/

VidyaNidhi. Available at
www.dspace.vidyanidhi.org.in:8080/dspace/

Wikipedia. Available at
wikipedia.org/
Objective

➢ To focus on various aspects of Digital Libraries and develop skills for building and managing Digital Collections.

Student Learning Outcomes

➢ The course provides an extensive knowledge about Digital Libraries and associated tools useful for managing digital libraries in an online environment with focus on understanding different Digital Library Software, resource discovery tools and digital preservation aspects.

Unit-I  Introduction to Digital Libraries

1.2 Digital Library Resources and Five Laws of Library Science
1.3 Digital Libraries: Issues and Challenges
1.4 Digital library Initiatives: Overview of Digital Libraries at National and International level.

Unit-II  Digital Library: Design and Management

2.1 Digital Libraries: Planning and Design.
2.2 Web 2.0 and Digital Libraries.
2.3 Safeguarding Digital Library surrogates.
2.4 Digital Libraries and Open Education.

Unit-III  Resource Discovery and Digital Library Software

3.1 Interoperability and Metadata Standards.
3.2 Metadata Harvesting and OAI-PHM
3.3 Features and utilities of prominent Digital Library Software.

Unit-IV  Digital Preservation

4.1 Digital preservation: Need and Importance
4.2 Digital preservation initiatives at global level: An Overview
4.3 Cultural Heritage and Digital Preservation.

**Suggested Readings:**


https://www.ideals.illinois.edu/bitstream/handle/2142/8339/librarytrendsv49i2f_opt.pdf?sequence=1


IFLA/UNESCO Manifesto for Digital Libraries.Available at


http://www.cnri.reston.va.us/kahn-cerf-88.pdf


Objective

➢ To sensitize and equip budding professionals with necessary skills and knowledge to manage different types of disasters affecting libraries, archives and information centres.

Course Outcome

Students will be able to:

➢ Have good understanding of different types of disasters that can affect libraries and information centers.

➢ Prepare in advance to tackle anticipated disasters with scientific approach and minimal damage to the precious resources housed in library, archives and information centers.

UNIT-I  DISASTER AND ITS MANAGEMENT: AN OVERVIEW

1.1 Disaster – Concept, types and Impact
1.2 Disaster Management and its importance
1.3 Disaster Management in Libraries

UNIT-II  DISASTER RISK ASSESSMENT AND PREVENTION

2.1 Risk Assessment
   2.1.1 Risks from outside the building
   2.1.2 Risks from the building structure and services
   2.1.3 Risks from human interference

2.2 Prevention and Protection
   2.2.1 The vicinity of the buildings & the building structures
   2.2.2 Security, storage systems, water & fire

UNIT-III  DISASTER PREPAREDNESS

3.1 Preparedness
   3.1.1 Drawing up a Disaster Preparedness Plan
   3.1.2 Roles of disaster Response team members
   3.1.3 Staff training
3.1.4 Identifying and making appropriate arrangements for a ‘recovery area

3.2 Reaction and Response

3.2.1 Primary response

3.2.2 Main disaster response

UNIT-IV DISASTER RECOVERY

4.1 Recovery

4.1.1 Identifying damaged materials

4.1.2 Shifting damaged materials to the recovery area

4.1.3 Sorting materials for treatment

4.1.3 Treatment of materials

4.2 Initiating Services to users from Recovery area

4.3 Assessing Damages to the building and Collections and negotiating with the Insurers

Suggested Readings


National Archives and Records Administration, Office of Records Administration 1996. (Vital Records and Records Disaster Mitigation and Recovery. College Park, Maryland : NARA.


Objective
➢ To acquaint students with University Library system it’s Components, Services and problems.

Students learning outcomes:
➢ This paper will help the student to know the different facets of university library system.

Unit-I  University Library
1.1 University Libraries: Concept, Need & Importance
1.2 University Libraries: Mission & Goals
1.3 Functions and Objectives

Unit-II  University Library: Components
2.1 Collection
2.2 Staff.
2.3 Finance,
2.4 Physical Infrastructure, users, etc.

Unit-III  University Library: Services
3.1 Services in modern era
3.2 Role of ICT in University Libraries
3.3 E-Learning in University set-ups

Unit-I  University Library: problems
4.1 Role of UGC in promoting university libraries
4.2 Problems faced by university libraries
4.3 Model university libraries – features

Suggested Readings:


LIS18207DCE-PRESERVATION AND CONSERVATION TECHNIQUES
(4 Credits)

Credit Pattern

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Objectives

- To understand the nature of preservation and conservation management, its components and implications.
- To understand the physical composition of reading material and causes of deterioration.
- To understand preservation and conservation standards.
- To identify technological options in the preservation.

Student learning outcomes:

- The students will be familiar with the field of preservation and conservation. Its importance in the age of fast technological obsolescence.
- The students will plan the preservation activities and can set up preservation labs for the rehabilitation of the document in their respective workplaces.

Unit-1

1.1 Preservation/conservation: purpose, components and Implications.
1.2 Principle carriers of information: major causes of loss, damage, deterioration, current methods and best practice for loss preventing or mitigating.

Unit-II

2.1 Preservation program in libraries and archives: core activities
2.2 Understand the principles of preservation assessment and planning, including budgeting for preservation activities.

Unit-III

3.1 Digital preservation: Foundation
3.2 Strategies of Digital preservation
3.3 Large-scale digital preservation initiatives (LSDIs)

Unit-IV

4.1 Digital preservation: Issues and challenges
4.2 Threats to Digital Materials
4.3 Organizational Issues & Resourcing Issues
Suggested Readings

http://palimpsest.stanford.edu/don/don.html

Northeast Document Conservation Center (NEDCC) Preservation leaflets,
http://nedcc.org/resources/leaflets.list.php

http://www.youtube.com/watch?v=5NWyruNYILw

http://www.indiana.edu/~medpres/

http://www.ala.org/ala/mgrps/divs/alcts/resources/preserv/defdigpres0408.cfm

Digital Preservation FAQs. National Archives [UK].


http://www.ijdc.net/index.php/ijdc/issue/archive

Northeast Document Conservation Center (NEDCC) Preservation leaflets.
http://nedcc.org/resources/leaflets.list.php

Model Preservation Policies for Ohio’s Cultural Heritage Institutions
http://cdm16007.contentdm.oclc.org/cdm/landingpage/collection/p16007coll7


http://www.avpreserve.com/avpsresources/papers-and-presentations/


**DIGITAL PRESERVATION RESOURCES**

Digital Public Library of America (DPLA) Self-Guided Curriculum for Digitization

National Digital Information Infrastructure and Preservation Program

The Signal: Digital Preservation Digital Curation Centre
LIS18208DCE - WEB TECHNOLOGIES AND TECHNIQUES: HEALTH INFORMATION NETWORK SYSTEMS
(4 Credits)

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Objective

➢ To focus on various web based technologies used for enhancement of health-related information

Student learning outcome:

➢ The paper will help the students to specialize in the field of Health Librarianship and help them to deal with various health information setups.

UNIT-I

1.1 Health Information System Networks: Introduction
1.2 Health Information System Networks: Types
1.3 Health Institutions and Information Processing

UNIT-II

2.1 Organizational Structures of Information Management in Health Care Networks
2.2 Healthcare Information Management Systems
2.3 Ethical and Legal Issues in health Information Networks

UNIT-III

3.1 Health Science Librarians and Health Informatics
3.2 New Roles and Opportunities
3.3 Health Science Librarians and Research

UNIT-IV

4.1 Quality of Health Information Systems
4.2 Strategic Information Management in Health Care Networks
4.3 HIT Impact on Patient Safety

Suggested Readings


LIS18002GE-CITATION AND REFERENCE MANAGEMENT SOFTWARE
(2 Credits)

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Objectives

- To sensitize students with reference management software.
- To sharpen their skills in one such reference management software for education and research purpose.

Student Learning Outcome

- The course tends to inculcate research ethics with focus on understanding importance of reference management in academic writings and practical demonstration of different reference management software and referencing styles.

Unit-I

1.1 Reference Management: Concept and Importance
1.2 Reference Management Software: Zotero, Mendeley, EndNote, Refworks, etc.
1.3 Citation and Referencing Styles (APA, MLA, etc.)

Unit-II

2.1 Primary Literature Indexing Databases: Web of Science, Scopus, Google Scholar etc.
2.2 Mendeley: Features and functions.
2.3 Mendeley: Management, synchronization, generating citations, bibliography, creating groups, etc.

Suggested Reading


Illustrative websites


SCOPUS (2017). Available at
https://www.elsevier.com/solutions/scopus

Web of Science (2017). Available at
apps.webofknowledge.com
Objectives

➢ To acquaint with the concept of Information Literacy, its role and impact on modern Libraries and on student’s information seeking behavior.

Students learning outcomes

➢ The paper will acquaint the student with various literacy skills required for knowledge exploration, retrieval and dissemination.

Unit-I  Information Literacy: Introduction and importance

  1.1 Information Seeking Behavior: Overview
  1.2 Information Literacy: Concept, Need and Objectives
  1.3 Areas of Information Literacy
  1.4 Standards in Information Literacy

Unit-II  Information Literacy and Libraries

  2.1 Role of Libraries in promoting Information literacy
  2.2 Impact of information literacy on the use and services of library resources
  2.3 Information Literacy Products: Library Brochures, Pamphlets etc.

Suggested Readings


3\textsuperscript{rd} Semester
LIS18301CR-INFORMATION RETRIEVAL

(4 Credits)

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Objectives

- To know various types of information retrieval Systems; their characteristics, evaluation, performance, and models.
- To acquaint with various tools, techniques and emerging online IR systems.

Student Learning Outcome

- The paper will educate the students about whole spectrum of IRs including the traditional as well as online IRs and help them as professionals to select and offer an appropriate IR System in terms of efficiency. The paper will be also be of great help to the students who expect to take IR as a career choice both academically as well as professionally to brush up their knowledge in various areas of IR.

Unit-I

1.1 Information Retrieval: Concept, Features, Genesis & Development.

1.2 Trends in Indexing: Automatic Indexing etc.

Unit-II

2.1 Subject Indexing and Vocabulary Control: Concept and Need.

2.2 Subject Heading Lists,

2.3 Thesaurus: Structure and Functions

Unit-III
3.1 Pre-coordinate Indexing Systems

3.1.1 Chain Indexing.

3.2 Post-Coordinate Indexing Systems

3.2.1 UNITERM Indexing System.

Unit-IV

4.1 Citation Indexing: Concept and development.

4.1.1 Online Citation Indexing Tools: SCOPUS, Web of Science.

4.2 Information Retrieval Systems: Types

4.3 Evaluation of Information Retrieval Systems: Methods and Parameters

Suggested Readings


Objective

➢ To impart practical, know-how of different Operating Systems, word processors, Spreadsheets and developing bibliographic databases using select packages.

Student Learning Outcome

➢ The course is framed keeping in view the essence of building the practical IT foundation among the students in order to make them comfortable in working on different operating systems, office package tools and libre office.

Unit-I

1.1 MS DOS

Practical 1.1.1 Introduction to DOS Command Prompt. Working with Directory commands MD, CD, RD, and TREE.

Practical 1.1.2 Introduction to Internal DOS Commands

Practical 1.1.3 Introduction to External DOS Commands

Practical 1.1.4 Batch Commands and XCopy commands.

Practical 1.1.5 Wild cards in Dos and Dos help.

1.2 WINDOWS (latest available)

Practical 1.2.1 Introduction to Windows, Windows Desktop, Icons, Taskbar and Start Button.

Practical 1.2.2 Using Scroll Bars, Dialog Boxes and Toolbars, Files and folders.

Practical 1.2.3 Using Control Panel for customizing Windows.
Practical 1.2.4 Introduction to Windows Accessories, Search and Run Features.
Practical 1.2.5 Add remove Programs/Hardware

Unit-II

2.1 MS WORD (latest available)
   Practical 2.1.1 Creating and editing a document.
   Practical 2.1.2 viewing and Inserting various objects and utilities in document.
   Practical 2.1.3 Formatting a document with different attributes
   Practical 2.1.5 Designing and insertion of different tables etc

2.2 MS EXCEL (latest available)
   Practical 2.2.1 Introduction to Creation, Editing and Saving of Excel.
   Workbooks and Workspaces. Inserting worksheets, rows and columns. Working with Cells and Ranges.
   Practical 2.2.2 Working with Excel Functions like Date and Time, Math and Trig, Statistical, Text and Logic.
   Practical 2.2.3 Working with Excel Charts.
   Practical 2.2.4 Changing worksheet Layout, Other Formatting Options.
   Practical 2.2.5 Goal Seek and Creation of Lists.

Unit-III

3.1 MS ACCESS (latest available)
   Practical 3.1.1 Creating a Blank Database in Access.
Practical 3.1.2 Working with Tables using design view, using wizard and by entering data.

Practical 3.1.3 Creating Queries

Practical 3.1.4 Understanding relationships.

Practical 3.1.5 Creating Forms.

Unit-IV

4.1 LibreOffice

Practical 4.1.1 Introducing and Setting Up LibreOffice.

Practical 4.1.2 Getting Started with Writer.

Practical 4.1.3 Getting Started with Calc.

Practical 4.1.4 Getting Started with Impress.

Practical 4.1.5 Getting Started with Draw and Base

Suggested Readings:


Marmel, E. J. (2013). Teach yourself visually Office 2013: The fast and easy way to learn. Indianapolis, IN: John Wiley & Sons, Inc.


**Websites (Illustrative):**

LibriOffice. (2017). Available at
https://www.libreoffice.org

Office 2007 Tutorials available at Florida Gulf Coast University.

Office.2010.ESSENTIAL MICROSOFT OFFICE 2010™ Tutorials for Teachers

LIS18303CR- INFORMATION SERVICES AND SYSTEMS
(4 Credits)

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Objectives

- To acquaint with reference and Information services, systems and their utility and significance.
- To understand various types of users, their information needs and seeking pattern etc.

Students learning outcome

After completion of this course, you will be able to:

- Learn about various types of information and documentation centers with their unique role for promotion of knowledge in their respective sectors.
- Have thorough know-how of initiating different reference and information services that can be offered to diverse user bases in different library settings.

Unit-I

1.1 Reference & Information Service: Concept, Need and Development.
1.2 Online Reference & Information Service: Concept and techniques.
1.3 Search strategy in Reference and Information Services.
1.4 Reference librarian: Role, Skills and Competencies.

Unit-II

2.1 Anticipatory Services

4.1.1 Current Awareness service
4.1.2 SDI

2.2 New & Emerging Techniques in CAS

2.3 Expert Systems in Reference & information Services.

2.4 Case Study of Different virtual Reference & Information Networks

### Unit-III

3.1 Information Systems: Basic Concept, objectives and Functions.

3.2 Components of Information System

3.3 Historical Development of information systems.

3.4 Planning, Design and Evaluation of Information system.

### Unit-IV

4.1 Study of International Information Systems and their programs

   4.1.1 INIS Features and Functions

   4.1.2 AGRIS Features and Functions

   4.1.3 MEDLARS/MEDLINE Features and Functions

4.2 Study of National Information Systems and their Programs

   4.2.1 NISCAIR with reference to information services

   4.2.2 INFLIBNET

   4.2.3 DELNET

   4.2.4 ENVIS

### Suggested Readings


**Websites (Illustrative):**

INFLIBNET.(2007). Available at [http://www.inflibnet.ac.in/](http://www.inflibnet.ac.in/)

DELNET .(2007). Available athttp://delnet.nic.in/

CALIBNET.(2007). Available at

    http://www.calibnet.in/

NASCAIR.(2007). Available at

    http://www.niscair.res.in/
LIS18304CR - Scholarly Communication and Publishing Ethics
(4 Credits)

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Objective

➢ To examine the historical developments and the changing trends in the field of academic writing, issues and challenges in scientific scholarly publishing and scientific data sharing, and new trends related to peer reviewing and measuring the impact of scientific publications.

Student learning outcome

➢ The paper will help students to draw a rich, nuanced picture of the practices and challenges involved in writing for scholarly publication. The content of the paper will be of greater help for taking a more inclusive approach to research.

UNIT-I Academic Writing

1.1 Academic Writing: Purpose

1.2 Key Actors in Academic Writing

1.2 Academic Writing as Knowledge production

UNIT-II Academic Writing Platforms and Publishing

2.1 Platforms and Types of Academic Writing

2.2 Academic Writing Obstacles

2.3 Publishing in Academic Journals

UNIT-III Academic Review Process

3.1 Manuscript Evaluation and Editorial Evaluation

3.2 Review Process and Reviewer Qualities

3.3 Recommending Reviewers

3.3.1 Types of Review
UNIT-IV
Research Ethics, Research Outreach and Performance

4.1 Ethical guidelines for Publishing
4.2 Publishing Companies, Publishing Fees, and Open Access Journals
4.3 Increasing the research visibility

Suggested Readings


LIS18305DCE - OPEN ACCESS ENVIRONMENT

(4 Credits)

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Objective

➢ To sensitize the students with OA movement and its tool, resources, challenges and opportunities

Students leaning outcome

After completion of this course, you will able to:

➢ Learn about scholarly communication process and various stages of research life cycle.
➢ Have know-how of concept, significance and genesis open access resources.
➢ Understand the concept of Creative common licenses and their different types with precise knowledge and implications.
➢ Learn about evolving open metrics and altmetrics to measure the scholarly output and their performance.

Unit-I Scholarly Communication Process

1.1 Research Lifecycle

1.2 History and Evolution of Scholarly Communication

1.3 Status and Trends

1.4 Role of Stakeholders

Unit-II Open Access: History and Developments

2.1 Open Access: Definition, Philosophy and Evolution

2.2 Approaches to Open Access

2.3 Benefits of Open Access
2.4 Arguments against Open Access and Responses
2.5 Open Access Business Models
2.6 Long-Terms Preservation Models

Unit-III Rights and Licenses
3.1 Intellectual Property Rights
3.2 Open Licenses
3.3 Support Tools and Services

Unit IV Advocacy for Open Access and Metrics
4.1 Open Access Advocacy
4.2 Training & Development
4.3 Open Access Metrics
4.4 Emerging Indicators (H-Index and Derivatives)

Suggested Readings


Davis-Kahl, S., & In Hensley, M. K. (2013). Common ground at the nexus of information literacy and scholarly communication.


Sompel, Herbert van de, Payette, Sandy, Erickson, John, Lagoze, Carl, & Warner, Simeon. (n.d.). Rethinking scholarly communication: building the system that scholars deserve.


**Online Videos Tutorials**

Flanders, Julia(2012). Defining Scholarly Communication. available at https://www.youtube.com/watch?v=8aybpzHLZuo
Garfield, Eugene (n.d.). Communicating science. Available at
http://www.webofstories.com/play/eugene.garfield/72

Raff, Martin (n.d.). Advice to Young Scientists: Do Important Science! Available at
http://www.webofstories.com/play/martin.raff/5

University of Guelph (2014). Introduction to Scholarly Communication. Available at
https://www.youtube.com/watch?v=E9WcbnAOPVA
Objectives

➢ To understand development of Agricultural science, resources and information systems useful to various stakeholders in accessing information.
➢ To familiarize students with the meaning, definition, use and implications of Agricultural Information Systems
➢ To study various source of agricultural information like organizations and databases.

Student learning outcome:

➢ Students will deliver better agriculture libraries by offering appropriate information source and system
➢ Students will help the stakeholders to identify networks, programmes and resources most suitable for the field of agriculture.

Unit-I Agriculture Science and Organizations

1.1 Agricultural Science: Concept

1.2 Scope of agricultural sciences

1.3 Agricultural Science Organizations and Institutions. National and International.

   1.3.1 Indian Council of Agricultural Research. (ICAR)

   1.3.2 Food and Agricultural Organization. (FAO).

1.4 Information needs and information seeking pattern of Agricultural Science Professionals: An overview.

Unit-II Agricultural Information Systems and Networks: International and National.

2.1 FAO Databases and Information Systems,
2.2 USDA Databases,
2.3 Consortium of International Agricultural Research Centers (CGIAR),
2.4 IARI and ICAR initiated databases.

Unit III National and international Library and Information support to Agricultural Sciences:
3.1 Contribution of National Agricultural library (USA), and National Digital Library for Agriculture (NDLA)
3.2 Library of IARI (India),
3.3 IDRC Digital Library (International Development Research Centre),

Unit-V National and international agriculture databases
4.1 AGRIS, AGRICOLA, CABI: Centre for Agriculture and Biosciences International, BIOSIS Previews, Biological & Agricultural Index plus, AGROVOC, Current Agricultural Research & Information System (CARIS)
4.2 Consortium for e-Resources in Agriculture (CeRA), AgriCat, Knowledge Innovation Repository of Agriculture in the North East
4.3 Microbial Genetic Resource Portal, National Academy of Agricultural Sciences, Rohu Database, Rice Knowledge Management Portal

Suggested Readings


Websites (Illustrative)

Aquaculture Network Information Center. Available at www.aquanic.org


Indian Agricultural Research Institute. Available at http://www.iari.res.in

Japan International Research Center for Agricultural Sciences. Available at http://www.jircas.affrc.go.jp/

National Agriculture and Forestry Research institute. Available at http://www.nafri.org.la/

World Agricultural Information Centre. Available at www.fao.org/WAICENT/
Objectives

➢ To acquaint students with web 2.0 features and functions with emphasis on fast changing features of web 2.0 to web X.0.
➢ To develop hands on exposure of web2.0 tools, technology and services.

Student learning outcome:

➢ The students will be familiar with the adoption and use of web 2.0 technologies in the library setup.
➢ The students will offer web 2.0 based library services and products to the broader user base.
➢ The students can implement web 2.0 services to help the research to enhance and benefit from the available sources, products and research networks in the web 2.0 environment.

Unit-I

1.1 Web 2.0: concept, development and features.
1.2 Web2.0 tools and technology: Blogs, Wikis, RSS feeds.
1.3 Social Networking: Podcasting, photo sharing, Mash-ups, General and professional SNS, video sharing sites

Unit-II

2.1 Web 2.0 and library: application and challenges
2.2 Managing scholarly communication in web 2.0 environment
2.3 Social networking services: trends, benefits and software for information professionals

Unit-III
3.1 Use of Cloud Computing: storage and collaboration

3.2 Create a mashup by adding a YouTube video and a Google map to a web page

3.3 Social book-marking, Folksonomies and User-Based Tagging

Unit-IV

4.1 Web 3.0 - the third decade

4.2 Web 3.0: features and application in libraries

4.3 Semantic web and linked data

Suggested Readings


Theimer, Kate. (2010). Web 2.0 tools and Strategies for Archives and Local History collections . New York, Neil Schuman

Koorakki, Dinesh Vasudevam, T.M; ed . Library 2.0 and Information Management. Delhi, Atlantic Publication


Web 2.0 and Library 2.0: What Librarians Need to Know" by Elizabeth Black
LIS18308DCE- OPEN SOURCE TECHNOLOGY

(4 Credits)

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Objective

➢ To focus on various aspects of Open Source Technology and develop skills for installing and using different Open Source Software.

Student Learning Outcome

➢ The course is framed keeping in view the essence of building the theoretical foundation about Opensource software among the students in order to make them familiar about open source software and its use in different systems as a viable alternative to commercial software.

Unit-I  Open Source: Basics

1.1 Open Source: Concept and Development.

1.2 Open Source Initiative

1.3 Open Source Licensing: An overview

1.4 Open Source: Issues and Challenges

Unit-II  Open Source Software

2.1 Open Source Software: Definition and Characteristics.

2.2 Open Source Software in different Setups: An overview

2.3 Benefits of Open Source Software Technology

Unit-III  Open Source Environments

3.1 Open Source OperatingSystems: Ubuntu, and FreeBSD.
3.2 Apache OpenOffice, LibreOffice and NeoOffice

3.3 Open Source Database tools: MySQL, PostgreSQL and SQLite.

Unit-IV Open Source Software and Libraries


4.2 Open Source Content Management Systems: An overview

4.3 Open Harvester Systems for Libraries.

Websites (Illustrative):
Apache OpenOffice(2017).Apache OpenOffice.Available at
https://www.openoffice.org/
Drupal(2017).Drupal.Available at
https://www.drupal.org/
FreeBSD(2017).FreeBSD.Available at
https://www.freebsd.org/
Joomla(2017).Joomla.Available at
http://www.joomla.org/
LibreOffice(2017).LibreOffice.Available at
https://www.libreoffice.org/
MySQL(2017).MySQL.Available at
https://www.mysql.com/
NeoOffice(2017).NeoOffice.Available at
OpenCms(2017).OpenCms.Available at
http://www.opencms.org/en/
https://pkp.sfu.ca/ohs/
http://opensource.org/
SQLite(2017). SQLite. Available at https://www.sqlite.org/
LIS18003GE-WEB RESOURCES FOR RESEARCH

(2Credits)

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Objectives

- To make students understand about the web resources.
- To sensitize stakeholders of different challenges to harnessing web-based information and how to overcome these challenges.

Student learning outcomes

- After completion of this paper, students will be able to know the various available web resources which will help them to carry forward their research and project work.

Unit-I  Problem in Scientists Current Practices of Using Web-Based Information

1.1 Web information Sources: Concept and Need
1.2 Challenges to Harnessing Web-Based Information
   1.2.1 Information Overload and Resources Evaluation
   1.2.2 Web Site Navigation, Reliability and Browsability issues
   1.2.3 Preprints
   1.2.4 Financial Concerns
   1.2.5 Scholarly Misconduct and Misinformation
   1.2.6 Copyright issues
1.3 Controlled Vocabularies and Web Site Evaluation

Unit-II  Tactics and Strategies for Dealing with Web-Based Information

2.1 Artificial Intelligence: Concept
2.2 Heuristic Search Strategies and Navigational Query Formulation
2.3 Search Strategies and Refinement Techniques in Online Databases
2.4 Information Sources - Subject Directories, e-Journals, e-Books, Databases and ETD’s
Suggested Readings


LIS18003OE-INFORMATION LITERACY: ADVANCED

(2Credits)

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Objectives

- To make students understand about the information literacy, information sources etc.
- To sensitize stakeholders of different evaluation criteria’s which are helpful for evaluating different web resources

Student learning outcomes

- The paper will acquaint the student with various literacy skills required for knowledge exploration, retrieval and dissemination.

Unit – I

1.1 Concept and importance of information literacy
1.2 Information sources: Concept, print and online
1.3 Documentary (Primary, Secondary and Tertiary) and Non-documentary: Specialists, Experts, Consultants; etc

Unit- II

2.1 Evaluation of information sources: Criteria
2.2 Information search strategies: Introduction and types
2.3 Formulation of search strategy
2.4 On-line searching.

Suggested Readings


Films Media Group, & Motion Masters Film & Video Production. (2016). Introduction to Information Literacy.


4th Semester
LIS18401CR-RESEARCH METHODS

(4 Credits)

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Objectives

- To get acquainted with foundations of research, various methods (including online ones), planning, designing and professional reporting in the field of Library and Information Science.

Student learning outcome:

- Since a clear understanding of research is of utmost importance for those who want to work successfully in the research environments, the paper will provide a professional and practical exposure to the students about the fundamentals of research and prepare them for their future research endeavors. The paper will also explore the real benefits of research which will help the would-be researchers to grow as professionals for the expansion and enrichment of existing knowledge in their interested fields.

Unit-I

1.1 Research: Foundations, Need & Ethics with special reference to online ethics.

1.2 Research: Types and Steps.

1.3 Barriers in Research.

Unit-II


2.2 Hypothesis: formulation, types.

2.3 Citation and Reference Styles with Special emphasis on APA Style.
2.3.1 Online Citation and Reference Management Tools (Mendeley etc.)

Unit-III

3.1 Review of Literature (Tools and Techniques)

3.2 Research Methods:

3.1.1 Historical: Definition, Characteristics and Stages

3.1.2 Descriptive: Definition, Characteristics and Stages (Survey, Case Study etc)

3.1.3 Experimental: Definition, Characteristics, Steps/Procedures,

3.1.4 Spiral of Scientific Method

Unit-IV

4.1 Data Analysis Software and Applications: SPSS Overview

4.2 Research Report: Form, Structure and guidelines.

4.3 Research Communities: With Special Reference to Virtual Research Communities (VRC’s)

Suggested Readings


LIS18402CR-LIBRARY AUTOMATION AND NETWORKING

(Theory)

Credit Pattern

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Objectives

- Develop an understanding of current applications of computer and communications technology in library and information services.
- To acquaint about emerging technologies useful for information access like Digital Libraries and allied concepts.

Student learning outcome:

- A chaotic and rapidly changing world of technology is dominating every sphere of knowledge and libraries have also embraced this changing technology to their fullest. The paper will guide the budding library professionals about the emerging technologies which will in turn guide them to practically get familiar with the technological gimmicks to prove themselves as the information professionals of the present technological era.

Unit-I

1.1 Library Automation: Origin and Development

1.2 Library Automation: Need and Purpose

1.3 Planning and Implementation of Library Automation

1.4 Library Automation: Operations

Unit-II

2.1 Communication: An Overview
2.2 Networks: Concept and Components
   2.2.1 Classification and Topology
   2.2.4 Resource Sharing and LIS Networks

2.3 Classification of LIS Networks based on Services offered

Unit-III

3.1 Internet: Origin and Development; Features and Working
3.2 World Wide Web: Origin and Development
   3.3.1 Features; Working and Use
   3.3.2 Information Search Tools
3.3 Invisible Web: Brief Concept and Tools
3.4 World Wide Web and Information Resources
   3.4.1 Online Journals
   3.4.2 Online Books
   3.4.3 Electronic Theses and Dissertation (ETDs)
   3.4.4 Online Newspapers, etc.
   3.5.5 Open access Resources

Unit-IV

4.1 Digital Libraries: Origin and Development and Features
4.2 Digital Libraries: Issues and Challenges
4.3 Digital Preservation: Concept and importance
4.4 Metadata
4.4.1 Metadata: Historical Development and Concept

4.4.2 Types of Metadata (Three and Five Category Taxonomy)

4.4.3 Metadata Element Sets: Dublin Core etc.

Suggested Readings


Also available at: http://www.ps.uni-sb.de/~duchier/pub/vbush.shtml


LIS18403CR- LIBRARY AUTOMATION AND NETWORKING (PRACTICE)

(4Credits)

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Objectives

- To educate and train budding professionals in running automated library with state of the art library management software.
- To create, manage, and access e-content useful for knowledge and development by developing interfaces, sensitizing in Web designing, familiarizing searching techniques and emerging web services besides facilitating print and web resource management.

Student learning outcome

- The practical course is designed to provide hands on sessions for creating mini test beds using packages like VB for database management and digital library software. Besides there are sessions for creating web pages using HTML and other tools and practical demonstration for using simple and advanced search techniques across different search tools available on the web that will help to:
  - Operate and manage automated library systems.
  - Create, manage and update personal and institutional blogs.
  - Formulate effective search strategy to retrieve precise information from different types of electronic search platforms.

Unit-I

Practical 1.1 Creating New Projects using Standard EXE.
Practical 1.2 Working with VB Components like Labels, Frames.
Practical 1.3 Radio Buttons, Scrolls, and List Boxes etc.
Practical 1.4 Database connectivity Using ADODB Control.
Practical 1.5 Data Insertion /Retrieval/Updation. (Project).

Unit-II

Practical 2.1 Library Management Software: Acquisition Module, Catalogue Module.
Practical 2.2  Library Management Software: Circulation Module, OPAC Module and Serial Control Module.

Practical 2.3  Greenstone: Installation and Customization.

Practical 2.4  Greenstone: Collection Building, Metadata induction (project).

Practical 2.5  Greenstone: Plugins, Searching-Indexes, Browsing-classifiers and working with ISIS files.

Unit III


Practical 3.2  Formatting of HTML Document. Format text (font size, color, etc.) in HTML presentation. Creating internal and external links.

Practical 3.3  Creating lists using bullets or numbers.

Practical 3.4  Creating Tables and organizing information.

Practical 3.5  Background color and images.

Practical 3.6  Introduction of FrontPage and publisher for web publishing

Practical 3.7  Creation of a website and publishing on free web services (project)

Unit IV

Practical 4.1  Web Searching: Simple and Advanced using various search techniques.

Practical 4.2  Searching tools and their usage: Search Engines, Meta Search Engines, Subject Gateways; etc.

Practical 4.3  Searching Web Resources using Digital Libraries, E-repositories and E-Archives.

Practical 4.4  Introduction to various emerging webservices. (Like Blogs, RSSfeed, U-tube, wikis etc.)

Practical 4.5  Creation of Blog and /or Wiki (Project).
Suggested Readings


**Websites (Illustrative):**

University of Waikato. (2017). GreenstoneWiki. Available at:

Objective

- The main objective of the “project report” is to pursue a current problem in the field of Library & Information science to explore its facets thoroughly and come out with solutions or ways in a scientific way.

Student learning outcomes:

- This will prove useful to the student in applying knowledge and experience acquired during the academic session to real, live and emerging problems in the field.

Method of Instruction

Each student or a group of two students only (depending upon the scope of the problem) will be required to submit a project report on an approved topic of current research and application. The report is to be submitted both in hard and soft format. The student(s) will work under the supervision of one or two experts/ guides from the Department or any other department of the university/ other recognized research institutes for successful completion of the project. The areas and topic will be finalized and approved by the Departmental research cum ethics committee to be constituted for the purpose, comprising Head of the Department, two senior colleagues and two approved supervisors on rotation basis.

Each report will be evaluated by the external and internal examiner and marks/grades for evaluation will be on presentation, methodology and inputs put in the work. The viva voce will also be conducted by the committee comprising HOD, External Examiner and two senior faculty members.
The Project will be of 100 marks out of which 80 marks will be awarded to project report evaluation and 20 marks will be for viva voce by the said committee. There will be no internal assessment. The Project Report is to be submitted not beyond 2 months after completion of 4th semester examination.

**Suggested Readings:**

The guide will providethe suitable list of readings and resources relevant to the problem.

**Other Suggested Readings:**

American Psychological Association.(2007). APA style. Available at

http://apastyle.apa.org/


McGregor Company.

Newsom, Nathan William.(1898). Standards for thesiswriting. Scranton, Pa,

International textbook.


*Note: The reading list is not exhaustive. The main reading list will vary from problem to problem and will be developed by the scholar and concerned Supervisor jointly for fruitful completion.
LIS18405DCE-Web Resources for Research
(4 Credits)

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Objectives

- To acquaint students with the problems faced by research community in using web-based information
- To acquaint students with Tactics and Strategies for dealing with such sources
- To acquaint students with sources and tools dealing with web-based information

Students learning outcomes:

- After completion of this paper students will be able to know the various available web resources which will help them to carry forward their research and project work.

UNIT-I Problem in Scientists Current Practices of Using Web-Based Information

1.1 Web information Sources: Concept and Need

1.2 Challenge to Harnessing Web-Based Information

1.2.1 Information Overload and Resources Evaluation

1.2.2 Web Site Navigation, Reliability and Browsability issues

1.2.3 Preprints

1.2.4 Financial Concerns

1.2.5 Scholarly Misconduct and Misinformation

1.2.6 Copyright issues

UNIT-II Tactics and Strategies for Dealing with Web-Based Information
2.1 Artificial Intelligence: Concept and Importance

2.2 Heuristic Search Strategies and Navigational Query Formulation

2.3 Controlled Vocabularies and Web Site Evaluation

2.4 Search Strategies and Refinement Techniques in Online Databases

UNIT-II Sources and tools for Dealing with Web-Based Information

3.1 Subscribed Sources - Subject Directories, e-Journals, e-Books, Databases and ETD’s.

3.2 Free Information Sources

3.3 Preprint Servers

UNIT-IV

4.1 Identifying Web Resources (URL, URI, PURL, etc.)

4.2 Digital Object Identifier: Concept and Features

4.3 Digital Signatures and Digital Humanities

4.4 Emerging Technologies: Web 3.0, etc.

Suggested Readings:


LIS18004GE-Content Management

(2 Credits)

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Objective

➢ To focus on various aspects of Content Management and develop skills for building and managing Digital Collections. Using different Content Management Systems.

Student learning Outcome

➢ The course helps to develop better understanding of key concepts in content management with a focus on developing skills to enhance the visibility of multimedia content using open source content management tools.

Unit-I Content Management Systems: Basics

1.1 Content Management: Concept and Importance

1.2 Understanding Key concepts in Content Management: Portal, Container, Module, Content, Role, User, Permissions etc.

1.3 Prominent Content Management Systems: Features and functionalities

Unit-II Content Management: Process and Evaluation

2.1 Steps in Content Management: Content Creation, Processes, Metadata, Platforms/Environment, Quality, Implementation.

2.2 Content Management tools: Web Browsers, Image editors, text editors, web based video tools, and web based presentation tools.

2.3 Evaluation of Prominent Content Management Systems in different setups.

Suggested Reading


Websites (Illustrative):

Drupal (2017). Drupal. Available at

https://www.drupal.org/

Joomla (2017). Joomla. Available at

http://www.joomla.org/
Moodle(2017). Moodle. Available at

https://moodle.org/

OpenCms(2017). OpenCms. Available at

http://www.opencms.org/en/
LIS18004OE-OPEN EDUCATIONAL RESOURCES: BENEFITS AND IMPACT

(2 Credits)

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Objective

➢ To focus on various aspects of Open Education and develop skills for using, modifying, repurposing and redistributing Open Educational Resources for enriching life-long learning.

Student learning outcome

➢ The course helps to develop better understanding of selecting, creating and using Open educational resources for supporting interactive learning experiences.

Unit-I  Open Education and Open Educational Resources (OER)

1.1 Open Education: Concept and Importance.
1.2 Open Educational Resources (OER): Concept, Genesis and Development.
1.3 Open Licences: An overview
1.4 Open Educational Resources: Challenges and Issues

Unit-II  Open Educational Resources: Use and Impact.

2.1 OER initiatives at Global level: An overview
2.2 Open Educational Resources: Asian Perspective
2.3 Quality Assurance in OERs.
2.4 OER repository Software: Features and Utilities.

Suggested Readings

AchalPrabhala. (2010). Copyright and Open Educational Resources.


