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MASTER OF LIBRARY AND INFORMATION SCIENCE (M.LIS) – SECOND SEMESTER

Second Semester			
S. No.	Name of Subject	Credits	Total Marks
1	Information and Communication Technology Applications in LIS (Practical)	3	100
2	Information Storage and Retrieval System	4	100
3	Information Literacy Applications in LIS	4	100
4	Public Library and Information System	4	100
5	Academic Library and Information System	4	100
6	Agricultural Sciences Library and Information System	4	100
Total		**23**	

Subject Name: INFORMATION AND COMMUNICATION TECHNOLOGY APPLICATIONS in LIS (Practical)

UNIT – I: Website Designing and Navigational Tools

Designing Static and Dynamic Library Websites, Designing Mobile Websites, Developing Web Directories, Subject Gateway and Library Portals, Designing and Developing Library Blogs, RSS Feeds, Wikis and Flickr, etc

Image Creation using Photoshop, CorelDraw, etc.

UNIT – II: Integrated Library Management Systems and Institutional Repositories

Installation and Configuration, Hands on Functional Modules of an Integrated Library Management System (Open Source), Web based Library Management Software, Installation and Configuration, Hands on Collection Building using GLI in Local and Web Library Modes and Metadata Creation, Customization of Greenstone Digital Library Software

UNIT – III: Audio and Video Conferencing

Audio Conferencing

Video Conferencing

UNIT – IV: Advanced Searching and Metadata Creation

Downloading MARC 21 Records using Z39.50 Protocol, Federated Search, Creation of Metadata

Recommended Books

1. **BATES (Chris)**. XML in theory and practice. 2003. John Wiley, Chichester.

2. **BRADLEY (Phil)**. How to use web 2.0 in your library. 2007. Facet Publishing, London.

3. **LOWERY (Joseph W)**. Dreamweaver MX bible. 2002. Wiley Publishing, Indianapolis.

4. **LYNCH (P J) and HORTON (S)**. Web style guide: basic design principles for creating web sites. Ed.3. 2009. Yale University Press, London.

5. **McCLELLAND (Deke)** . Photoshop 7 bible. 2003. Wiley Publishing, New York.

6. **SIMMONS (Curt)**. Microsoft office front page 2003 bible with CDROM. 2003.Wiley Publishing, Indianapolis.

7. **ULLMAN (Larry)**. Building a web site with ajax: visual quickpro guide. 2007.Peachpit Press, Berkeley.

8. **WITTEN (Ian H), BODDIE (Stefan)** and **THOMPSON (John)**. Greenstone digital library user's guide. 2006. New Zealand Digital Library Project, New Zealand.

Subject Name: INFORMATION STORAGE AND RETRIEVAL SYSTEM

UNIT – I: Fundamental Concepts

Concept, Characteristics, Objectives, Types, Operations and Design, Compatibility of ISAR System, Information Retrieval Process and Search Strategy, Evaluation of ISAR System, Vocabulary Control Tools: Classification Schedules, Subject Heading Lists and Thesaurus, Need, Structure and Construction of Thesaurus, Principles and Evolution of Bibliographic Description

UNIT – II: Knowledge Management

Introduction to Indexing Systems, Introduction to Indexing in Corporate System, Introduction to Indexing in Research System

UNIT – III: Bibliographic Description

Rules for Bibliographic Description, Standards for Bibliographic Record Formats, Metadata Concept, Metadata Standards: Dublin Core, MARC 21, etc.

UNIT – IV: Search Techniques and Information Retrieval

Man and Machine Retrieval System, Search Strategies: Boolean Operations, Proximity Search, Heuristic Search, Navigational Search, etc.

Internet Searching and Meta Search Engines, Data Mining, Data Harvesting and Semantic Web, Knowledge Management Retrieval

Recommended Books

1. **CHOWDHURY (G G)**. Introduction to modern information retrieval. 1999. Library Association, London.

2. **CLEVELAND (Donald B)** and **CLEVELAND (Ana D)**. Introduction to indexing and abstracting. 2001. Libraries Unlimited, Colorado.

3. **FOSKETT (A C)**. Subject approach to information. Ed.5. 1996. Library Association, London.

4. **GOSH (S N)** and **SATPATHI (J N)**. Subject indexing system: concepts, methodsand techniques. 1998. IASLIC, Calcutta.

5. **KORFHAGE (R R)**. Information storage and retrieval. 1997. John Wiley, New York, USA.

6. **LANCASTER (F Wilfred)**. Vocabulary control for information retrieval. Ed. 2.1985. Information Resource Press, Arlington.

7. **LANCASTER (F Wilfred)**. Indexing and abstracting in theory and practice. Ed.3. 2003. University of Illinois, Urbana.

8. **ROWLEY (J)**. The basics of information system. Ed. 2. 1996. Library Association, London.

9. **SOERGEL (D)**. Indexing languages and thesauri: construction and maintenance.1974. John Wiley and Sons., New York.

10. **WALKER (G)** and **JANES (J)**. Online retrieval: a dialogue of theory and practice1993. Libraries Unlimited, Englewood, London.

Subject Name: INFORMATION LITERACY APPLICATIONS IN LIS

UNIT – I: FUNDAMENTAL OF INFORMATION LITERACY

Concept, Need and Objectives, Areas of Information Literacy, Standards in Information Literacy, Role of Institution in Information Literacy

UNIT - II: INFORMATION LITERACY PROGRAMMES

Scope of Information Literacy Programme, National Programmes in Information Literacy, International Programmes in Information Literacy

UNIT – III: METHODOLOGY OF INFORMATION LITERACY

Information Literacy Products: Library Brochure, Database Brochure, Web-based Access Instructions, Information Bulletin, Designing of Information Literacy Programme, Implementation of Information Literacy Programmes.

UNIT- IV: APPLICATION OF INFORMATION LITERACY IN LIBRARY ANDINFORMATION CENTRES

Information Literacy for Users, Information Literacy for Professionals, Information Literacy for Research and Development.

UNIT - V: TRENDS IN INFORMATION LITERACY

Web based Information Literacy System, OPAC Information Literacy System, Life Long Learning System.

Recommended Books

1. **AMERICAN ASSOCIATION OF SCHOOL LIBRARIANS AND ASSOCIATIONSFOR EDUCATIONAL COMMUNICATIONS AND TECHNOLOGY**. Information Standards for Student Learning. (1998) American Library Association, Chicago.

2. **AMERICAN LIBRARY ASSOCIATION**. Information Literacy: a position paper on information problem solving (2000). Available at:www.ala.org/assl.positions/PS_infolit.html (accessed 21 July 2003)

3. **BALDWIN (V A)**. Information Literacy in Science & Technology Disciplines. Library Conference Presentation and Speech. (2005). University of Nebraska, Lincoln. http://digitalcommons.unl.edu/library_talks/11

4. **DELCOURT (M)** and **HIGGINS (C A)**. Computer technologies in teacher education: the measurement of attitudes and self-efficacy. *Journal of Research and Development in Education.* (1993). 27; 31-7.

5. **EISENBERG (M B) et al.** Information Literacy: Essential Skills for the Information Age. 2nd ed. (2004), Libraries Unlimited, Westport.

6. **GRASSIAN (E S)**. Learning to lead and manage information literacy instruction. (2005) Neil Schuman Publishers, New York.

7. **GRASSIN (E S)** and **KAPLOWITZ (J R)**. Information Literacy Instruction: Theory and Practice. (2001). Neal Schuman, New York.

8. **SMITH (S).** Web-based Instruction. A Guide for Libraries. (2001). American Library Association, Chicago.

9. **TIGHT (M)**. Lifelong Learning: Opportunity or Compulsion? *British Journal of Education Studies*. Vol. 46; 3 September 1998; 251-263.

Subject Name: PUBLIC LIBRARY AND INFORMATION SYSTEM

UNIT – I: Public Libraries and their Development

Objectives and Functions, History and Development of Libraries with Special Reference to India, Role of Public Libraries in Society, Agencies and their Role in Promotion and Development of Public Libraries in India

UNIT – II: Collection Development and Management

Periodicals, Conference Literature, Grey Literature and Government Publications, Non-Book Materials, Electronic Sources and Online Databases.

UNIT – III: Library Organization and Administration

Organizational Structure, Staff Manual, Library Surveys, Statistics and Standards, etc.

UNIT – IV: Information Services

CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services, Computerized Services,

Resource Sharing and Networking

UNIT – V: Financial and Human Resource Management

Determination of Finance, Sources of Finance, Types of Budget, Nature, Size, Selection, Recruitment, Qualification and Training, Responsibilities and Duties, Competency Development.

Recommended Books

1. **BARUA (B P)**. National policy on library and information systems and services for India: perspectives and projections. 1992. Popular, Bombay.

2. **BATT (Chris)**. Information technology in public libraries. 1998. London LibraryAssociation Publishing, London.

3. **BHATT (R K)**. Unesco: development of libraries and documentation centres in developing countries. 2004. K K Publications, New Delhi.

4. **HIGGINS (S E)**. Youth services and public libraries.2007. Chandos Publishing, Oxford.

5. **IFLA**. IFLA guidelines for public libraries (revised). 2000. The Hague, IFLA.

6. **INDIA.** Advising committee for libraries. Ed. 2. 1958. Manager of Publications, Delhi.

7. **JAGANAYAK (S S)**. Role of libraries in socio-economic, cultural, and educational development. 1997. Classical Publication, New Delhi.

8. **PATEL (Jashu)** and **KRISHAN KUMAR**. Libraries and librarianship in India.2001. Greenwood Press, Westport, Connecticut.

9. **THOMAS (V K)**. Public libraries in India: development and finance.1997. Vikas. Publication, New Delhi.

10. **WOODRUM (Pat), Ed**. Managing public libraries in 21st century. 1989. The Hawork Press, New York.

Subject Name: ACADEMIC LIBRARY AND INFORMATION SYSTEM

UNIT – I: Academic Libraries and their Development

Objectives and Functions, History and Development of Libraries with Special Reference to India, Role of Libraries in Formal and Non-Formal Education System, UGC and its Role in the Development of College and University Libraries.

UNIT – II: Collection Development and Management

Periodicals, Conference Literature, Grey Literature and Government Publications, Non-Book Materials, Electronic Resources and Online Databases

UNIT – III: Library Organization and Administration

Organizational Structure, Staff Manual, Library Surveys, Statistics and Standards, etc.

UNIT – IV: Information Services

CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services, Computerized Services, Resource Sharing and Networking: INFLIBNET, UGC-INFONET Digital Library Consortium, etc.

Information Literacy Programmes.

UNIT – V: Financial and Human Resource Management

Determination of Finance, Sources of Finance, Types of Budget, Nature, Size, Selection, Recruitment, Qualification and Training, Responsibilities and Duties, Competency Development.

Recommended Books

1. **BAKER (David), Ed**. Resource management in academic libraries.1997. Library Associations, London.
2. **BROPHY (Peter)**. The academic library. 2000. Library Association, London.
3. **BUDD (J M)**. The academic library: the context, its purpose and its operation. 1988. Libraries Unlimited, London.
4. **CHAPMAN (Liz)**. Managing acquisitions in library and information services 2001. Library Association, London.
5. **DOWLER (L) Ed**. Gateways to knowledge: the role of academic libraries in teaching, learning and research.1998. The MIT Press, London.
6. **JORDON (Peter)**. The academic library and its users.1998. Gower Publishing Limited, London.
7. **LINE (Maurice B), Ed**. Academic library management. 1990. Library Association, London.
8. **RANGANATHAN (S R)**. School and college libraries. 1942. Madras Library Association, Madras.
9. **WEBB (Sylvia P)**. Personal development in information work. Ed 2. 1991. Aslib, London.
10. **WHITE (Carl M)**. Survey of university of Delhi. 1965. Planning Unit, University of Delhi, Delhi.

Subject Name: AGRICULTURAL SCIENCES LIBRARY AND INFORMATION SYSTEM

UNIT – I: Agricultural Science Libraries and their Development

Objectives and Functions, History and Development of Libraries with Special Reference to India, Role of ICAR, Committees and Other Agencies in the Development of Agricultural Libraries in India.

UNIT – II: Collection Development and Management

Periodicals, Conference Literature, Grey Literature, Patents, Standards, Specifications and Government Publications, etc.

Non-Book Materials, Electronic Resources and Online Databases.

UNIT – III: Library Organization and Administration

Organizational Structure, Staff Manual, Library Surveys, Statistics and Standards, etc.

UNIT – IV: Information Services

CAS, SDI, Abstracting and Indexing Services, Library Bulletin, Newspaper Clipping Services, Computerized Services, Resource Sharing and Networking: AGRIS, INAGRIS, CABI, etc.

Information Literacy Programmes.

UNIT – V: Financial and Human Resource Management

Determination of Finance, Sources of Finance, Types of Budget, Nature, Size, Selection, Recruitment, Qualification and Training, Responsibilities and Duties, Competency Development.

Recommended Books

1. **BHATT (V S)**. Information resources in agricultural research in 40 years of agricultural research in India. 1989. ICAR, New Delhi.

2. **CHOTEY LAL (C)**. Agricultural libraries and information systems: a handbook for users. 1998. R K Techno Science Agency, New Delhi.

3. **DAYMATH (Y)** and **RUTTAN (V W)**. Agricultural development: an international perspective. 1979. John Hopkins, Baltimore.

4. **DESHMUKH (P P)**. Standardization of library and information services with special reference to scientific and agricultural libraries. 1990. ABC, New Delhi**.**

5. **KUMAR (P S G)**. Agricultural librarianship: MLISc elective paper. 2008. B.R.Publication, New Delhi.

6. **SHARMA (R D)**. The agricultural information network for India. 1989. Society for Information Science, New Delhi.

7. **SUBBAIHA (R)**. Agricultural librarianship in India: an overview. 1988.Metropolitan, New Delhi**.**

8. **SWAMINATHAN (M S)**. Report of the working group on agricultural research and education for the formulation of the eighth plan. 1989. Planning Commission, ICAR, New Delhi.

Note: The Normal Rule and Regulation pertaining to the Examination and other issues will be applicable in Faculty of Library and Information Science as per Arunachal University of Studies Act 2012, Subsequent Statute and Rules & Regulations.