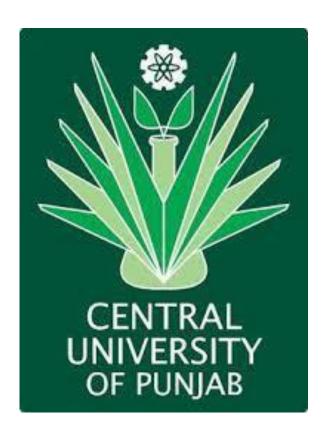
CENTRAL UNIVERSITY OF PUNJAB, BATHINDA



Master of Library and Information Science (M. Lib. I. Sc.)

Department of Library and Information Science

Session: 2019-21

SEMESTER - I

COURSE CODE	COURSE TITLE	Course Type	L	Т	P	CR		
LIS.506	Fundamentals of Library and Information Science	Compulsory Foundation	4	0	0	4		
LIS.507	Information Sources and Services Core Course				0	4		
LIS.508	Foundations of Computer & Compulsory Information Technology in Libraries Foundation				0	4		
LIS.509	Foundations of Computer & Information Technology in Libraries	Skill based Practical	0	0	8	4		
Discipline	Elective (Any one of the following)							
LIS.510 LIS.511	Information Literacy Information Sources in Science and Technology	Disciplinary Elective	3	0	0	3		
ID courses	ID courses offered by other departments							
	IDC	ID	2	0	0	2		
Total	Total				8	21		

SEMESTER - II

COURSE CODE	COURSE TITLE	Course Type	L	Т	P	C R
LIS.521	Knowledge Organization –	Core	4	0	0	4
LIS.521	Classification	Course	7	U	U	7
LIS.522	Knowledge Organization -	Core	4	0	0	4
LIS.522	Cataloguing and Metadata Course		Т	U	U	T
LIS.523	Knowledge Organisation -	Core	4	0	0	4
LIS.323	Classification (Practice)	Course	1	U	P	4
LIS.524	Knowledge Organisation -	Core	4	0	0	4
LIS.324	Cataloguing and Metadata (Practice)	Course			ľ	4
Discipline	Elective (Any one of the following)					
LIS.525	Knowledge Management System					
110 506	Preservation and Conservation of	Disciplinary	3	0	0	3
LIS.526	Library Material	Elective				
ID courses	offered by other departments					
	IDC	ID	2	0	0	2
Seminar					•	
LIS.542	Seminar	Skill based	0	0	2	1
Internship	•		•	•	•	•
LIS.591	Internship	Skill based	0	0	8	4
Total	·		21		10	26

SEMESTER - III

COURSE CODE	COURSE TITLE	Course Type	L	T	P	CR			
LIS.551	Information Storage and Retrieval	Core	4	0	0	4			
LIS.552	Management of Libraries and Information Centres	Core	4	0	0	4			
LIS.553	Library Automation and Digital Library	4	0	0	4				
LIS.554	AIS.554 Research Methodology and Compulsory Statistical Techniques Foundation				0	4			
LIS.555	Library Automation and Digital Library	Core	0	0	4	2			
Discipline	Discipline Elective (Any one of the following)								
LIS.556 Engineering and Technological Library and Information System Disciplina		Disciplinary	3	0	0	3			
LIS.557	Technical Writing	Elective							
Compulso	Compulsory Foundation including MOOC								
Student can Select any one course through MOOC		MOOC	4	0	0	4			
Value Add	ed								
	Value added course offered by CUP	Value added	1	0	0	1			
Total			24		4	26			

SEMESTER - IV

COURSE CODE	COURSE TITLE	Course Type	L	T	P	CR
LIS.571	ICT and Networking Technology and Library Networks	Core	4	0	0	4
LIS.572	Emerging trends in LIS	Core	2	0	0	2
LIS.573	Academic Library and Special Library Systems	Core	2	0	0	2
LIS.574	Overview: ICT, Digital Library and Library Automation			2	0	2
LIS.575	Overview Information Sources				0	2
Discipline	Elective (Any one of the following)					
LIS.580	Agriculture Information Sources and Systems					
LIS.581	Social Science Information Sources and Systems					
LIS.582	IS.582 Public Library and community based information systems		3	0	0	3
LIS.583	Business Information Systems	Elective				
LIS.584	Health Sciences Information Systems					
LIS.585	Information Analysis					
Value Add	ed					
	Value added course offered by CUP	Value added	1	0	0	1
Seminar						
LIS.544	Seminar	Skill based			2	1
Project						
LIS.599	Project work	Project	0	0	12	6
Total			12	4	14	23
Grand Tot	al		74	4	36	96

List of Value Added Courses

The list of Value added courses has been provided to choose any two courses in a programme

S No.	Name of Course
1.	Ethics for Science
2.	Professional Ethics
3.	Academic Writing
4.	Peace and Value Education
5.	Stress Management

6.	Personality Development through Life Skills		
7.	Physical & Mental Well Being		
8.	Pedagogical Studies		
9.	Data Analysis using Spread sheet		
10.	Soft Skill Training		
11.	Leadership		
12.	Personnel Management		
13.	Human Resource Management		
14.	Physical Resource Management		
15.	Reasoning Ability		
16.	MS Office Specialist		
17.	Practical Taxation		
18.	Ethical Issues & Legal Awareness		
19.	Disaster Management		
20.	Nutrition and Specialty Foods		
21.	Shorthand & Typing		
22.	SPSS Application		

Evaluation Criteria for Theory Courses

- A. Continuous Assessment: [25 Marks]
 - Surprise Test (minimum three) Based on Objective Type Tests (10 Marks)
 - ii. Term paper (10 Marks)
 - iii. Assignment(s) (5 Marks)
- B. Mid Semester Test-1: Based on Subjective Type Test [25 Marks]
- C. Mid Semester Test-2: Based on Subjective Type Test [25Marks]
- D. End-Term Exam: Based on Objective Type Tests [25 Marks]

^{*}Every student has to take up 2 ID courses of 2 credits each (Total 04 credits) from other disciplines in any two semesters of the program.

^{*}Every student has to take up 2 MOOC courses of 4 credits each (Total 08 credits) from https://epgp.inflibnet.ac.in

^{*}Value added courses may be offered through MOOC if facilities are not available in the university

SEMESTER - 1

Course Code: LIS.506

Course Name: Fundamentals of Library & Information 4

L T P Cr 4 0 0 4

Science

UNIT – I: Library as a Social Institution

14 hours

- Library as a Social Institution
- Development of Libraries in India; Committees and Commissions on Libraries in India
- Types of the Library (Academic, Public, Special, National)
- Role of Library and Information Centres in Modern Society
- Five Laws of Library Science and their implications

UNIT – II: Role of Professional Associations and Organizations for the Development of Libraries

14 hours

- National Library of India: Concept, Functions and Services
- Professional Associations: ILA, IASLIC, CILIP, ALA, Aslib, IATLIS, SLA
- Role of National and International Organizations: UGC, RRRLF, UNESCO and IFLA

UNIT – III: Library Legislation and Legal Issues

16 hours

- Library Legislation: Need, Purpose, Objectives and Model Library Act
- Library Legislation in India: Structure and Salient Features
- IPR and Legal issues categories, conventions, treaties, Laws
- Press and Registration Act
- Delivery of Books (Public Libraries) Act
- Right to Information Act

UNIT - IV: Information and Communication and Professional Ethics

- Information: Characteristics, Nature, Value and Use of Information Conceptual difference between Data, Information, Knowledge and Wisdom, Communication channels, models and barriers
- Information Life Cycle Generation, Collection, Storage and Dissemination
- National Knowledge Commission and National Mission on Libraries
- Information Intermediaries
- Librarianship as a Profession
- Professional Skills and Competencies
- Professional Ethics
- Role of Library and Information Professionals in Digital Era

Suggested Readings

- 1. CHAPMAN (E A) and LYNDEN (F C). Advances in librarianship. 2000. Academic Press, San Diego.
- 2. CHOWDHURY (G G), BURTON (P F) and McMENEMY (D). Librarianship: the complete introduction. 2008. Neal-Schuman Publishers, New York.
- 3. FEATHER (J). The information society: a study of continuity and change. Ed. 6. 2013. Facet Publishing, London.
- 4. Hocine Cherifi, Jasni Mohamad Zain, Eyas El-Qawasmeh (2011) Digital Information and Communication Technology and Its Applications, Springer
- 5. KHANNA (J K). Library and society. 2011. ESS ESS Publications, New delhi.
- 6. KRISHAN KUMAR. Library organisation. 1997. South Asia Books, New Delhi.
- 7. Michael Buckland Information and Society. 2018. Gildan Media/MIT Press.
- 8. RANGANATHAN (S R). Five laws of library science. Ed. 2. 2006. Sarada Ranganathan Endowment for Library Science, Bangalore.
- 9. SINGH (S P). Special libraries in the electronic environment. 2005. Bookwell, New Delhi.
- 10. VENKTAPPAIAH (V) and MADHUSUDHAN (M). Public library legislation in the new millennium. 2007. Bookwell, New Delhi.

Course Code: LIS.507

Course Title: INFORMATION SOURCES AND SERVICES

L	T	P	Cr
4	0	0	4

Unit - I Reference and Information Sources:

- Information Sources Nature, Characteristics, Types and Formats.
- Documentary sources of information: Print, non-print including electronic sources Definition, need and use.
- Non-documentary information sources: Human, Institutional and Electronic; Nature, types, characteristics and utility.
- Categories: Primary, Secondary and Tertiary information sources
- Electronic Information Resources Subject Gateways, Web Portals, Bulletin Boards Discussion Forums /Groups, Social media as a source of information
- Databases: Bibliographic, Numeric, Full text, Abstracting, indexing and citations Databases
- Evaluation of Reference sources and web resources.

Unit - II Reference Services

16 hours

- Reference Service: Concept, types, theories and trends.
- Referral Service: Concept, types
- Reference interview
- Information Users and their Information Needs: Categories of information users, Ascertaining Users' Information need.

Unit – III Information Services and Products:

14 hours

- Information Services and products. : Concepts, definition, need and trends.
- Community Information Services
- Alerting Services: need, techniques and evaluation (CAS and SDI).
- Bibliographic, referral, Inter Library Loan, document delivery and translation services.

Unit - IV National Centres, Information Systems and Services: 14 hours

Study of National, International and Commercial Information Systems and Services (NISCAIR, DESIDOC, SENDOC, ENVIS, INFLIBNET, DELNET, NICNET, ERNET, National Knowledge Network (NKN), Biotechnology Information System): Background, their services and products.

- 1. CHENEY (F N) and WILLIAMS (W J). Fundamental reference sources. Ed. 3. 2000. ALA, Chicago.
- 2. CRAWFORD (John). Evaluation of library and information services. 2nd ed., 2010. ASLIB, London.
- 3. FARMER (LSJ), Ed. The human side of reference and information services in academic libraries: adding value in the digital world.2007. Chandos Publishing, Oxford.
- 4. FOSKETT (D J). Information service in libraries. Ed.2. 1967. Archon Book Hamden, Connecticut.
- 5. FOURIE (D) and DOWELL (D). Libraries in the information age., 2nd ed. 2009. Libraries Unlimited, New York.
- 6. Gurdev Singh. Information Sources, Services and Systems. 2013 Prentice Hall India Learning Private Limited
- 7. KATZ (William A). Introduction to reference work: reference service and reference process. v.2. Ed. 8. 2001. McGraw-Hill, New York
- 8. KRISHAN KUMAR. Reference service. Ed. 5. 2009. Vikas Publishing, New Delhi.
- 9. RANGANATHAN (S R). Reference service. Ed 2. 1990. Ranganthan Endowment for Library Science, Bangalore.
- 10. WALFORD (A J). Guide to reference books. v.3. Ed. 4. 1996. Library Association, London.

11. WOODSWORTH (Anne) and WILLIAMS (James F). Managing the economics of owning, learning and contracting out information services. 2018. Gower, London.

Course Code: LIS.508

Course Title: Foundations of Computer & Information Technology in Libraries

L	T	P	Cr
4	0	0	4

UNIT - I: Introduction to Computers

16 hours

- Computers: Generations, Types, Hardware, Input and Output Devices, Computer Architecture
- Data Representation and Storage (ASCII, ISCII, Unicode)
- Introduction to System Software and Application Software
- Operating Systems: DOS, Window, IOS, Linux and its variants, etc.
- Applications Software: Word Processing, Spreadsheets, PowerPoint Presentation, Graphics Software: Basic Functions and Potential Uses
- Communication Software: FTP, Telnet, Email and Messaging

UNIT – II Introduction to Communication Technology

14 hours

- Computer Networks Topologies, Types of Networks LAN, MAN, WAN.
- Internet Web browsers, WWW, E-mail; Search Engines, Meta and Entity Search engines.
- Internet Protocols and Standards HTTP, SHTTP, FTP, SMTP, TCP/IP, URI, URL.
- Hypertext, Hypermedia, Multimedia, Video conferencing, Virtual Reality, Augmented Technologies.

UNIT - III: Database Management Systems

16 hours

- Database: Concepts and Components
- Database Structures, File Organization and Physical Design
- Database Management System: Basic Functions, Potential Uses

UNIT - VI: Internet Technology

- Basics of Internet
- Search Engines and Meta Search Engines
- Internet Search Techniques
- IOT (Internet of things)
- Introduction to Web Servers: Apache Server and Internet Information Server

Suggested Readings

- 1. NEELAMEGHAN (A) and LALITHA (S K). Tutor +: A learning and teaching package on hypertext link commands in WINISIS. 2001. Sarada Ranganathan Endowment for Library Science, Bangalore.
- 2. NEGUS (Christopher). Linux bible. Ed. 10th, 2019. John Wiley, New York.
- 3. RAJARAMAN (V). Introduction to information technology. Ed. 3rd rev. 2018. Prentice-Hall of India, New Delhi.
- 4. Rajaraman, V. and Adabala N. Fundamentals of Computer. Ed. 6th rev. 2014. Prentice Hall of India.
- 5. Thomas R. Kochtanek (2017), Library Information Systems: From Library Automation to Distributed Information Access Solutions, Libraries Unlimited
- 6. UNESCO. CDS/ISIS for windows: reference manual. v1.5. 2004. UNESCO, Paris.
- 7. WALKENBACH (John), et al. Office 2007 bible. 2007. John Wiley, New York.

Course Code: LIS.509

Course Title: Foundations of Computer & Information

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Technology in Libraries (Practical)

Unit I Operating Systems and Application Software

- Installation and Functions of Different Operating Systems: Window & Linux
- Setting of Desktop, Library Server and its Maintenance
- MS Office: Word, Excel, Access and PowerPoint Presentation

Unit II Database Creation and Library Software

• Installation and Creation of Databases: Import, Export, Hyperlinks and using XAMP (Apache, MySQL, PhP,)

Unit III Applications of Cloud based Services

- Google drive
- Drop Box
- One Drive
- Google docs

- 1. CHOWDHURY (G G) and CHOWDHURY (Sudatta). Organizing information: from the shelf to the web. 2007. Facet Publishing, London.
- 2. CHOWDHURY (G G) and CHOWDHURY (Sudatta). Searching CD-ROM and online information sources. 2001. Library Association, London.
- 3. Dania, Bilal (2014). Library Automation: Core Concepts and Practical

- System Analysis. Libraries Unlimited Inc.
- 4. NEELAMEGHAN (A) and LALITHA (S K). Tutor +: A learning and teaching package on hypertext link commands in WINISIS. 2001. Sarada Ranganathan Endowment for Library Science, Bangalore.
- 5. NEGUS (Christopher). Linux bible. Ed. 10th, 2019. John Wiley, New York.
- 6. SIMPSON (Alan). Windows XP bible. 2004. John Wiley, New York.
- 7. UNESCO. CDS/ISIS for windows: reference manual v1.5. 2004. UNESCO, Paris.
- 8. WALKENBACH (John), et al. Office 2007 bible. 2007. John Wiley, New York.
- 9. WINSHIP (Ian) and McNAB (Alison). The student's guide to the Internet.2000. Library Association, London.

Course Title: Information Literacy

L	T	P	Cr
3	0	0	3

Unit I: Introduction to Information Literacy

13 hours

• Information: Characteristics of information; Types of information; Information society, Information literacy models, standards; concept of lifelong learning.

Unit II: Types of Information Literacy

10 hours

• Digital literacy, Digital divide and information literacy, Media literacy, computer literacy.

Unit III: Information Literacy and Librar

12 hours

- Information literacy and types of libraries, Resource literacy, Research literacy.
- Types of Library Users and User Education

Unit III: Information Literacy Policies

10 hours

• International and national initiatives, Policies and guidelines IFLA, ALA, UNESCO, Information literacy skills and best practices.

- 1. Association of College and Research Libraries (ACRL). (2018). Information Literacy
- 2. Bawden, D. (2001). Information and digital literacies: a review of concepts. Journal of documentation, 57(2), 218-259.
- 3. Competency Standards for Higher Education. American Library Association.

- 4. Michael C. Alewine & Mark Canada (2017). Introduction to Information Literacy for students John Wiley & Sons.
- 5. Presidential Committee on Information Literacy, American Library Association. (1989).
- 6. Torras, M. C. & Saetre, T. P. (2009). Information Literacy Education. Oxford: Chandos Publishing.

Course Title: Information Sources in

Science and 3 0

Technology

Unit I: Information Sources

13 hours

 Documentary and Non-Documentary Sources; Primary, Secondary and Tertiary Sources of Information.

Unit II: Reference Sources

10 hours

• Categories, Characteristics and Usefulness (dictionaries, encyclopedias, yearbooks, directories, biographical sources, geographical sources, statistical sources, sources of current information) Evaluation of Reference Sources.

Unit III: Electronic Sources of Information

12 hours

• Electronic Sources: E-Books, E-Journals, ETDs, Web-OPAC; Subject Databases, Gateways/Portals, Bulletin Boards, Discussion Group/Forum, Multimedia Resources,; Search Engines, search strategies, access to information sources.

Unit IV: Information Sources in Science and Technology 10 hours

• Web of Science, Scopus, Scifinder, Major abstracting and indexing databases in Science and Technology. Open Access Resources like arXiv, ChemXseer, PubMed.

- Albert, Walker. (1974). House Journals. In Kent, A. et al. (Eds.). Encyclopaedia of
- 2. Borowick, J. N. (1996). Technical Communication and its Applications. 2nd Ed. Prentice Hall.
- 3. Chowdhury, G. G. & Chowdhury, Sudatta. (2001). Searching CD-ROM and Online
- 4. Information Sources. Library Association Publishing.
- Eleaner, Mitchell & Walters, Sheila A. (1995). Document Delivery 5. Services: Issues and Answers. Learned Information Inc.

- 6. Guha, B. (1983). Documentation and Information Services, Techniques and
- 7. Systems. 2nd ed. World Press.
- 8. Hutchins, John. (1998). Translation Technology and Translator. Machine Translation
- 9. James E. Bobick & G. L. Berard (2011). Science and Technology Resources: A Guide for Information Professionals and Researchers. Libraries Unlimited Inc.
- 10. McGrath, Mike. (2004). Interlending and Document Supply: A Review of Recent
- 11. Literature. XLVII. Interlending and Document Supply. Vol. 32(1), pp. 50-54.
- 12. Penland, Patric R. (1971). Content Analysis. In Kent, Allen and Lancour, Harold (Eds). Encyclopaedia of Library and Information Science. New York: Marcel Dekker Inc. Vol. 5, pp. 632-665. Prior, Albert. (1997). Intermediaries and Electronic Information What Role for the
- 13. Rowley, J. (1999). The Electronic Library. 4th ed. London: Library Association
- 14. Publishing.
- 15. Saracevic, T. et al. (1990). Nature of Interaction between Users and Intermediaries in Online Searching: A Qualitative Analysis. In Proceedings of the 53rd Annual Meeting of the American Society for Information Science. Vol. 27, pp. 47-54.
- 16. Singer, Carol A. (2012). Fundamentals of Managing Reference Collections. Facet publishing .
- 17. Subramanyam, K. (1980). Trade Catalogues: Technical Literature. In Kent, A. et al. (eds.). Encyclopaedia of Library and Information Science. Marcel Dekker. Vol. 30, pp. 190- 198.
- 18. Walford, A. J. (1968-70). Guide to Reference Materials (3 Vols). Library Association.
- 19. Library and Information Science. Marcel Dekker. Vol. 11, pp. 61-64.
- 20. Review. Vol. 7, pp. 7-14.

SEMESTER - II

Course Code: LIS.521

Course Title: Knowledge Organization - Classification (Theory)

L	T	P	Cr
4	0	0	4

Unit – I: Introduction to Knowledge Organisation

- Knowledge Organisation: Basic concept, Nature and Modes of Formation of Subjects.
- Knowledge Organisation Classification Theories, Cannons, and

Principles;

- Species of Library Classification.
- Faceted and Enumerative Schemes of classification
- Brief introduction to descriptive and dynamic theory of classification
- Major Classification schemes in brief

Unit – II Colon Classification (CC) and Universal Decimal Classification (UDC) 16 hours

- Colon Classification (CC): Salient features and Components:
- Facet analysis, principles of facet sequence, Fundamental Categories (PMEST), Devices, Notational System, Three planes, Mnemonics, Phase Relations, Common Isolates (ACI and PCT), Rounds and Levels, Index.
- Universal Decimal Classification (UDC): Salient Features
- Nature and Scope, Structure, Notational System, Arrangement and Tables in UDC.
- Common Auxiliary Tables: Scope and Examples.
- Common Auxiliary Signs: Scope and Types
- Master Reference File (UDC MRF): Basic Concept UDC Translations: Current Status.

Unit – III Dewey Decimal Classification (DDC)

14 hours

• Salient Features and Components of DDC: Structure and layout, organization of basic classes, hierarchy, coverage, notation, simplicity, memorability, hospitality, Chain-Structure, flexibility, manual, DDC Summaries, Relative Index, Table Schedules Summaries, entries, notes.

Unit – IV Current Trends and Organization of the Web Resources

14 hours

- Online Versions: Web Dewey, UDC online and LC Web (Brief Description).
- Brief Introduction of OCLC Classify,
- UDC Online Summary.
- Folksonomy: Basic concept, Tagging and Social Bookmarking.
- Semantic Web: concept, need, purpose, and advantages.
- Simple Knowledge Organisation System (SKOS), Taxonomies,

- 1. Batley, S. (2014).Ed. 2nd. Classification in theory and practice. Oxford: Chandos.
- 2. Dhyani, P. (2008). Library classification: Theory and principles. New Delhi: New Age International (P) Ltd, New Delhi.
- 3. Krishan, K. (1979). Theory of classification (4th Ed.). New Delhi: Vikas pub.

- 4. Ranganathan, S. R. (2006). Philosophy of library classification. Copenhagen: E. Munksgaard.
- 5. Satija, M. P. (2011). A guide to the theory and practice of colon classification. New Delhi: EssEss Publications
- 6. Satija, M. P. (2012). Exercises in the 23rd edition of dewey decimal classification. New Delhi: EssEss pub.
- 7. Satija, M. P. (2013). The theory and practice of the Dewey Decimal Classification system (2ndEd.). Oxford: Chandos Pub.
- 8. Wali, M. L., & Baba A. M. (1982). Manual of library classification practice for Dewey Decimal and Colon classification schemes. Srinagar: the auths.

Course Title: Knowledge Organization - Cataloguing and Metadata

L	T	P	Cr
4	0	0	4

Unit – I Forms of Library Catalogue

16 hours

14 hours

- Library Catalogue: Concept, objectives and functions
- Physical forms of Library Catalogue:
- Conventional and Non-conventional, Web OPAC.
- Types of Catalogue: Dictionary Catalogue, Classified Catalogue, Alphabetico-Classed Catalogue, Alphabetico-Subject Catalogue

Unit - II Catalogue Entries and Subject Cataloguing

- Catalogue Entries: Main entry and Added entries (According to CCC 5th ed. and AACR-2).
- Subject Cataloguing: Meaning, purpose, objectives, approaches (Chain Procedure and Sear's List of Subject Headings).

Unit – III Normative Principles and Union Catalogue 14 hours

- Union Catalogue: Concept, purpose, Union Catalogues of INFLIBNET, DELNET and OCLC.
- Selective, Simplified and Centralized Cataloguing. Authority File, Shelf List, ISBN, ISSN
- Principles of Cataloguing
- Canons and Principles of Cataloguing: Their application to CCC and AACR -2 and its revision.

Unit - IV Current Trends in Cataloguing

- Standards for Bibliography Record Formats and Description: ISBD, MARC 21, CCF, RDA, FRBR and Bibframe.
- Metadata: meaning, purpose, use, & types.
- Metadata Standards: DUBLINCORE, MARC 21, METS, EAD, MODES,
- Standards for Bibliographic Information Interchange & Communication ISO 2709, Z39.50, Z39.71,

Suggested Readings

- 1. Bowman, J. H. (2003). Essential cataloguing. London: Facet.
- 2. Chan, L. M., & Hodges, T. (2015). Cataloging and classification: An introduction (3rded.). Lanham, Md: Scarecrow Press.
- 3. Chowdhury, G. G., & Chowdhury, S. (2007). Organizing information: From the shelf to the Web. London: Facet.
- 4. Girja, K., & Krishan, K. (2011). Theory of cataloguing (5t hed.). Delhi: Vikas Pub. House.
- 5. Gorman, M., Winkler, P. W., Joint Steering Committee for Revision of AACR., & American Library Association. (2003). Anglo-American cataloguing rules. Ottawa: Canadian Library Association.
- 6. Sanghamitra Pradhan (2019), Cataloguing of Non-print Resources: A Practical Manual. Ess Ess Pubns
- 7. Sears, M. E., & In Westby, B. M. (2018). Sears List of subject headings (22nd ed.). New York: H.W. Wilson.
- 8. Welsh, A. & Batley, S. (2012). Practical cataloguing: AACR, RDA and MARC 21. London: Facet Publishing.

L	T	P	Cr
4	0	0	4

Course Code: LIS.523

Course Title: Knowledge Organisation - Cataloguing and Metadata (Practice)

Unit - I Anglo American Cataloguing Rules, 2nd ed. 1988 part - 14 hours

- Single authorship. Shared authorship.
- Collections and works produced under editorial direction.
- Works of mixed responsibility (Collaborators).
- Revision of works. Adaptation of texts. Biographical works.
- Pseudonyms. Sacred scriptures and Multi-volume documents.

Note: Sears List of Subject Headings will be followed for Subject Cataloguing.

Unit – II AACR - 2 14 hours

- Corporate authorship Government bodies: Executive, Legislative, Judiciary; Institutions, Associations, Conferences Proceedings).
- Composite books (With and without collective title page, bound with). Microforms.
- Computer files. Sound recordings. Motion pictures and Video recordings.
- Serials (to be set in question No. 1 only)

Note: Sears List of Subject Headings will be followed for Subject Cataloguing.

Unit – III Classify Catalogue Code, 5th ed. by Dr. S.R. Ranganathan 20 hours

- Single authorship. Shared authorship.
- Work of mixed responsibility (Collaborators).
- Adaptation of texts and Pseudonyms.
- Multi-volume documents.
- Corporate authorship (Government bodies: Executive, Legislative, Judiciary; Institutions, Associations, Conference Proceedings).
- Composite books (ordinary and artificial).
- Festschrift volumes.
- Serials (to be set in question No. 1 only)

Note: Chain Procedure will be followed for Subject Cataloguing.

Unit IV: Classify Cataloguing

12 hours

- MARC 21
- LCSH (Library of Congress Subject Heading)

Suggested Readings

- 1. Chan, L. M. (2015). Cataloguing and classification: An Introduction (3rded.). New York: Scarecrow Press.
- 2. Gorman, M., Winkler, P. W. (Eds.), Joint Steering Committee for Revision of AACR., & American Library Association. (2003). Anglo-American cataloguing rules. Ottawa: Canadian Library Association.
- 3. Ranganathan, S.R. (2000). Cataloguing practice (2nd ed.). Bangalore: Sarada Ranganathan Endowment for Library Science.
- 4. Ranganathan, S. R., & Neelameghan, A. (2006). Classified catalogue code: With additional rules for dictionary catalogue code. New Delhi: Ess Ess Pub..
- 5. Sears, M. E. (2018). Sears list of subject headings (22nd ed.). New York: H.W. Wilson.
- 6. Welsh, A., & Batley, S. (2012). Practical cataloguing: AACR, RDA and MARC 21. London: Facet Publishing.

Course Code: LIS.524

Course Title: Knowledge Organisation - Classification (Practice)

L	T	P	Cr
4	0	0	4

Unit - I Classification of Documents according to DDC (23rd Ed.)

14 hours

- Classification of Documents representing simple subjects.
- Classification of documents using tables.

Unit - II Classification according to DDC (23rd Ed.)

14 hours

• Classification of documents representing compound subject.

• Classification of documents representing complex subject.

Unit - III Classification of same document according to DDC 16 hours

• The students will be asked to classify same title according to both DDC.

Unit – IV Classification of documents according to UDC (3rd Abridged Ed.) 16 hours

- Classification of Documents representing simple subjects.
- Classification of documents using Auxiliary tables.
- Classification of documents representing compound subject.
- Classification of documents representing complex subject.

Suggested Readings

- 1. British Standards Institution., & International Federation for Documentation. (1961). Universal Decimal Classification: Abridged English edition (3rd rev. ed.). London: BSI
- 2. Dewey, M., & Custer, B. A. (2011). Dewey decimal classification and relative index (23rd Ed.). (Vol. 4). Albany: OCLC
- 3. Ranganathan, S.R. (2007).Colon Classification (6th rev. ed.). Bangalore: Sarda Ranganathan Endowment for Library Science.
- 4. Satija, M. P. (2011). A guide to the theory and practice of colon classification. New Delhi: Ess Ess Publications.
- 5. Satija, M. P. (2012). Exercises in the 23rd edition of the Dewey decimal classification. New Delhi: EssEss Publications.
- 6. Satija, M. P. (2013). The theory and practice of the Dewey Decimal Classification system (2nd ed.). Oxford: Chandos Pub.
- 7. Singh, S. (2011). The theory and practice of the Dewey decimal classification system. New Delhi: Isha Books.

Course Code: LIS.525

Course Title: Knowledge Management

L	T	P	Cr
3	0	0	3

Unit I -Knowledge Management: Basics

12 hours

- KM Meaning, Principles, Tools, Components and Architecture.
- Knowledge Economy: Features, characteristics, Need, complex nature of knowledge, taxonomy of knowledge

Unit II- Knowledge Management: Strategies

- Capturing tacit knowledge methods
- Knowledge codification tools and procedures
- Knowledge Mapping; Knowledge testing; Knowledge transfer

Unit III - Knowledge Management System: Tools

10 hours

- Data visualization
- Data mining
- Managing knowledge workers

UNIT IV - Knowledge Management Portals

10 hours

- Knowledge Management in Library and Information Centers
- Knowledge creation and knowledge architecture Nonaka's model
- Types of knowledge; KM Systems

Suggested Readings

- 1. Anderson, Paul. (2012). Web 2.0 and beyond: principles and technologies. CRC Press
- 2. Awad, Elias M (2011). Knowledge Management. Prentice Hall India.
- 3. Cappelli, Peter. (2010). The performance effects of it-enabled knowledge management practices. Cambridge.
- 4. Christee Gabour Atwood. (2009). Knowledge Management Basics. ASTD Pess.
- 5. Dalkir, Kimiz & Liebowitz, Jay (2011). Knowledge Management Theory & Practice. MIT Press
- 6. Easterby-Smith, Mark & Lyles, Marjorie A. (2011). Handbook of organizational learning and knowledge management. Wiley.
- 7. Hislop, Donald. Ed. 3rd (2013). Knowledge Management in organization. Oxford.
- 8. Holsapple, Clyde. (2013). Handbook on Knowledge Management 1: Knowledge
- 9. Jennex, Murray E. (2008). Knowledge Management: Concepts, Methodologies, Tools and Applications. Information Science Reference.
- 10. Liebowitz, Jay (2012). Knowledge Management Handbook: Collaboration and Social
- 11. Matters. Springer
- 12. Networking. Taylor and Francis.

Course Code: LIS.526

Course Title: Preservation and Conservation of Library Material

L	T	P	Cr
3	0	0	3

Unit-I Library Materials: Preservation and Conservation

- Need for Preservation and Conservation
- Evolution of Writing Materials
- Palm leaves and Birch Bark: Their Nature and Preservation
- Manuscripts, books, Periodicals, Newspapers, Pamphlets etc
- Non-Book Materials
- Guidelines of National Mission on Manuscripts

Unit -II Hazards to Library Materials and Control Measures 10 hours

- Environmental Factors
- Biological Factors
- Chemical Factors
- Disaster Management

Unit-III Binding

12 hours

- Different Types of Binding for Library Documents
- Binding Materials
- Binding Process
- Standards for Library Binding

Unit -IV Restoration and Reformatting

10 hours

- Material Repair
- Microfilming and Digitisation

- 1. Bogdan, Zerek (2014). Preservation and protection of library collections. Chandos Publishing.
- 2. Diringer, D. (1953). The Hand Produced Book, London: Hutchinson's.
- 3. Feather, John (1996). Preservation and the Management of Library Collections. 2nd Ed. London: Library Association Publishing.
- 4. Feather, John (1996). Preservation and the Management of Library Collections. 2nd Ed. London: Library Association Publishing.
- 5. Filliozat, Gean (1947). Manuscripts on Birch Bark (Bhurjapatra) and their Preservation. Indian Archives, Vol.1, No.2, pp.102-108.
- 6. Harvey, Ross (1993). Preservation in Libraries, A Reader London: Bowker.
- 7. Harvey, Ross. (1994). Preservation in libraries: principles, strategies and practices for librarians. London: Bowker Saur.
- 8. Harvey, Ross. (1994). Preservation in libraries: principles, strategies and practices for librarians. London: Bowker Saur.
- 9. Hendersen, Kathryn Luther and Henderson, William T. (ed) (1991). Conserving and Preserving Library Materials. Urbana Champaign: University of Illinois.
- 10. India. National Archives of India, (1988). Repair and Preservation of Records. New Delhi: National Archives of India.
- 11. Johnson, Arthur W. (1988). The Practical Guide to Book Repair and Conservation. London: Thames and Hudson.
- 12. Majumdar, P.C. (1957). Birch Bark (Bhurjapatra) and Clay Coated Manuscripts in the Gilgit Collection their Repair and Preservation. Indian Archives, Vol 11, Nos. 1-2, pp. 77-84.
- 13. National Archives of India. (1988). Repair and Preservation of Records. New Delhi.

- 14. Prajapati, C.L.(1997). Archivo-Library Materials Their Enemies and Need of First Phase Conservation. New Delhi: Mittal Publications.
- 15. Ranbir Kishore, (1962). Preservation and Repair of Palm Leaf Manuscripts, Ibid; Vol.14, pp. 73-78
- 16. Singh, R.S. (1995) Conservation of Documents in Libraries, Archives and Museums. New Delhi: Aditya Prakashan.
- 17. Suri, Jina Harisagara, (1947). Palm Leaf Manuscripts in Jaisalmir, Ibid, Vol.1, No.3, pp 234-35

Course Code: LIS.542
Course Title: Seminar

L	T	P	Cr
0	0	8	4

Each student to present two seminar in a semester which will be evaluated by the three internal faculty members. The criteria will be as follow:

- Selection of topic
- Presentation
- Interaction/response

Course Code: LIS.591

Course Title: Internship Programme

L T P Cr 4 0 0 4

- A. Report on Internship Programme
- B. Viva-Voce

Objectives:

- i. To train the students in practical librarianship in the working environment of the library by deputing them in different types of libraries for a period of one month.
- ii. To train them in preparing the Internship Report in a prescribed format based on their practical training and learning.
 - Note: Each student shall have to undergo an Internship Programme at a library, selected by the Department for a period of one month, immediately after the Second Semester Examination.

SEMESTER - III

Course Code: LIS.551

Course Title: Information Storage and Retrieval

L	T	P	Cr
4	0	0	4

Unit - I Indexing Systems and Techniques

16 hours

- Assigned and Derived Indexing.
- Pre Coordinate and Post Coordinate indexing.
- Chain Indexing, PRECIS, POPSI. Key Word Indexing:
- KWIC, KWAC, KWOC.
- Concept of Automatic Indexing.
- Citation Indexing: Features of Scopus. Web of Science, Google Scholar

Unit - II Vocabulary Control

14 hours

- Vocabulary Control: Need, Purpose, Functions, types and characteristics.
- Vocabulary Control Tools
- Subject Headings: Library of Congress Subject Headings, Sears List of Subject Headings and Medical Subject Headings, Thesaurus
- Features, Structure and Construction, ERIC, UNESCO Thesaurus. Taxonomies.

Unit - III Information Searching and Media

14 hours

- Search Methods and Search Strategy: Boolean Search, Heuristic Search, Proximity Search, Phrase Search, Truncation search.etc.
- Information Searching in Different Media: Print, Electronic and Internet.
- Federated Search: Concept and Features.
- Web-Scale Discovery System (WSDS): Concept and Features.
- Search engines, Meta search engines, Z39.50 and metadata. DOI: Concept. Data Mining,

Unit - IV Information Retrieval System and Abstracting System 16 hours

- Abstracting Concept, Definition and types
- Information Retrieval System: Concept, definition, types, characteristics, components of ISRS. Information Retrieval Models.
- Library information retrieval systems
- Evaluation of an Information Retrieval System: Recall, Precision and Relevance, Relevance feedback.

- 1. Aitchison, J., Gilchrist, A. & Bawden, D. (2005). Thesaurus construction and use: a practical manual. (4th ed.). London: Taylor and Francis.
- 2. Bates, M.J. (2012). Understanding information retrieval systems: management, types and standards. Boca Raton, FL: CRC press.

- 3. Cleveland, D. & Cleveland, A. (2013) Introduction to indexing and Abstracting. (4th ed.). Englewood: Libraries Unlimited.
- 4. Fransson, J. (2011). Efficient Information searching on the web: a handbook in the art of searching for information. Sweden: Fransson
- 5. Kowalski, G.J. & Maybury, M.T. (2002). Information Storage and Retrieval System: theory and implementation. (2nd ed.). New York: Kluwer.
- 6. Manning, C. D., Raghavan, P., & Schütze, H. (2008). Evaluation in information retrieval. Introduction to information retrieval, 151-175.

Course Title: Management of Libraries and Information Centres

L	T	P	Cr
4	0	0	4

Unit 1: Schools of Management Thought

14 hours

- Classical, Neo-classical and Modern management theories
- Principles of Scientific Management
- Fayol's Principles
- Functions of Management (POSDCORB)

Unit – II Library Resource Management

14 hours

- Library and Information Centers Management Book Selection Tools and Principles
- Library Acquisition, Technical Processing, Circulation, Serial Control, Maintenance and Stock Verification;
- Preservation and Conservation; Hazards and Control Measures of Library Materials.

Unit – III - Human Resource Management and Marketing 16 hours

- Human Resource Management Planning, Job Analysis, Job Description, Job Evaluation, Selection, Recruitment, Motivation, Training and Development, Performance Appraisal; Staff Manual.
- Project Management SWOT, PEST, PERT / CPM.
- Total Quality Management (TQM) Concepts, Principles and Techniques, Six Sigma;
- Evaluation of Services of Libraries and Information Centers.
- Marketing of Library Products and Services Plan, Research, Strategies, Mix, Segmentation, Pricing and Advertising; Management Consultancy.

Unit – IV – Library Planning and Financial Management 16 hours

• Financial Management in Libraries - Sources of Finance, Resource Mobilisation, Budgeting Methods; Cost Effective and Cost Benefit

- Analysis, Annual Reports & Statistics; Library Authority and Committee.
- Library Building, Furniture and Equipments; Green Library Building; Information Commons; Makers Space; Security and Safety.
- Management Information System (MIS), MBO, Change Management, Disaster Management, Crisis Management.

- 1. Beard well, Ian & Holden, Len. (1997). Human Resource Management: A contemporary perspectives. Financial Times/Prentice Hall.
- 2. Bryson Jo. (2018). Effective Library and Information Management. Jaico Pub. House
- 3. Bryson, J. (2017). Managing information services: A sustainable approach. Routledge Pub.
- 4. Christian, A. R. (2013). Academic library management: Universities, colleges and institutions. Jaipur: Vista Publishers.
- 5. Dorado, A. (2012). New trends in library management. London: Koros
- 6. Drucker, Peter F. (2002). Management Challenges for the 21st century. Oxford; Butterworth Heinemann.
- 7. Durean, J. M. & Clements, D. W. G. (1986). Principles of the preservation of library materials. IFLA.
- 8. Edwards, E. G. (2005). Developing Library & Information Centre Collections. Westport: Libraries Unlimited.
- 9. Evans, G. Edward & Layzell, Patricia. (2007). Management Basics for Information Professionals, 2 Ed. Libraries Unlimited.
- 10. Harvey, Poss. (1993). Preservation in libraries: a reader. RR Bowker.
- 11. Johnson, P. (2018). Fundamentals of collection development & management (4th ed.). Chicago: American Library Association.
- 12. Kotler, Philip (2015). Marketing Management. 15th Ed. New Delhi: Pearson. Narayana, G J. (1991).
- 13. Krishan, K. (2007).Library Management in Electronic Environment. New Delhi: Har-Anand Publication.
- 14. Library and Information management. Prentice Hall of India. Paton, Robert A. (2000). Change Management. Response Books.
- 15. McKnight, S. (2011). 101 ideas for successful library management. London: Facet.
- 16. Mittal, R. L. (2007). Library administration: Theory and practice (4th ed.). Delhi: EssEss Pub.
- 17. Rowley, Jennifer (2016). Information Marketing. Routledge.
- 18. Sood, N. M. (2011). Fundamentals of library administration and management. New Delhi: Mahaveer& Sons.
- 19. Stoner, James A F (et.al). (2003). Management: Global Perspectives. 10th Ed. Pearson India.

- 20. Stueart, R. D., Moran, B. B. & Morner, C. J. (2017). Library and information center management. 9th Ed. Englewood, Colo: Libraries Unlimited.
- 21. Thanuskodi, S. (2013). Challenges of academic library management in developing countries. Hershey PA: Information Science Reference.
- 22. Velasquez, D. (2013). Library management 101: a practical guide. Chicago: ALA Editions, an imprint of the American Library Association.

Course Title: Library Automation and Digital Library

L	T	P	Cr
4	0	0	4

Unit I: Library Automation

16 hours

- Library Automation Needs, scope and Definition
- Library Automation Areas, Planning, Selection of Hardware and Software, Implementation and Evaluation
- Standards for Library Automation.
- Barcode, RFID, NFC (Near Field Communication), QR Code, Biometric, Smartcard: Features and Applications.

UNIT - II: Library Automation Standard and tools

14 hours

- In-house Operations: Acquisition, Cataloguing, Circulation, Serial Control, OPAC, etc. Bibliographic Standards: CCF, Dublin Core and MARC 21
- Introduction to Metadata: Types of Metadata
- Library Software Packages: Overview and House Keeping Operations
- Case Studies: Koha

Unit – III: Digital Library

16 hours

- Digitization Planning, Selection of Materials, Hardware, Software, Process, Issues.
- Digital Library: Genesis, Characteristics, Types, Architecture; Standards, Formats and Protocols, DOI.
- Digital Preservation Need, Purpose, Standards, Methods, Techniques, Projects (National and International).
- Digital Library Initiatives National and International.

Unit - VI: Institutional Repositories

- Institutional Repositories Need, Purpose, Types and Tools;
- Institutional Repositories in India; Shodhganga, National Digital Library etc
- ROAR, DOAR, SHARPA-ROMIO.

- 1. Bishop, A. P., Van House, N. A., & Buttenfield, B. P. (Eds.). (2003). Digital library use: Social practice in design and evaluation. MIT Press.
- 2. Boardman, Mark. 2005. The language of websites. London: Rutledge Taylor & Francis Group.
- 3. Bolan, Kimberly, & Cullin, Robert. 2011. Technology made simple: An improvement guide for small and medium libraries. Chicago: American Library Association.
- 4. Bradley, Phil. 2003. WWW: How to design and construct web pages. London: Aslib.
- 5. Chowdhury, G. G. & Chowdhury, Sudatta. (2003). Introduction to Digital Libraries. : Ane Books.
- 6. Chowdhury, G. G., & Chowdhury, Sudatta. 2001. Information sources and searching on the World Wide Web. London: Facet Publishing.
- 7. Chowdhury, G. G., & Foo, S. (Eds.). (2012). Digital libraries and information access: research perspectives. Facet Publishing.
- 8. Cohn, John M., Kelsey, Ann L., & Fiels, Keith Michael. 1998. Planning for library automation: A practical handbook. London: Library Association.
- 9. Deegan, Marilyn & Tanner, S. (2006). Digital Preservation.Facet Publishing.
- 10. Fox, Edward; Andre Goncalves, Marcos & Shen, Rao (2012) Theoretical Foundations for Digital Libraries: The 5SApproach. Morgan and Claypool
- 11. Ingersoll, Patricia, & Culshaw, John. 2004. Managing information technology: A handbook for systems librarians. Westport, CT: Libraries Unlimited.
- 12. Jones, Richard et al. (2006). The Institutional Repository. Oxford: Chandos Publishing.
- 13. Judith, Andrews & Derek, Law. (2017). Digital Libraries. Routledge.
- 14. Lucy A. Tedd & Andrew Large. (2004). Digital Libraries: Principles and Practice in a Global Environment. G.G. Saur.
- 15. Osborne, Larry N., & Nakamura, Margaret. 2004. Systems analysis for librarians and information professionals (2nd ed.). Englewood, CO: Libraries Unlimited.
- 16. Purcell, Aaron. (2016). Digital Library Programs for Libraries and Archives: Developing, Managing, and Sustaining Unique Digital Collections. ALA
- 17. Rao, Ravichandran I. K. 1990. Library automation. New Delhi: Wiley Eastern.
- 18. Reynolds, Dennis. 1985. Library automation: Issues and applications. New York: Bowker.

- 19. Rice-Lively, Mary Luhn, & Chen, Hsin-Liang. 2006. Scenarios and information design; A user-oriented practical guide. Oxford: Chandos Publishing.
- 20. Rowley, J.E. 1993. 2nd ed. Computer for libraries. London: Clive Bingley.
- 21. Satyanarayana, N. R. 1995. A manual of computerization of libraries. New Delhi: Viswa Prakashan.
- 22. Satyanarayana, N. R. 2014. A manual of library automation and networking. Lucknow: Ess Ess Pub.
- 23. Xavier, C. 2017. World Wide Web design with HTML. New Delhi:

Course Title: Research Methodology and Statistical Techniques

L	T	P	Cr
4	0	0	4

Unit – 1 Concept of Research

16 hours

- Research Concept, Characteristics, Scope and Research Ethics
- Types of Research Basic and Applied, Interdisciplinary and Multidisciplinary.
- Research Methods: Historical, Descriptive, Experimental and Delphi.
- Research Design Selection and Formulation of Research Problem, Review of Literature; Hypothesis - Formulation, Types and Testing; Sampling Techniques.

Unit – II Research methods and Statistical Techniques

16 hours

- Methods of Data Collection (Qualitative and Quantitative): Questionnaire, Interview, Observation, Library Records, Scales and Checklist.
- Data Analysis and Interpretation
- Statistical Techniques (Parametric and non-parametric)
- Statistical Packages Spreadsheet, SPSS, Bibexcel, 'R' Statistics.

Unit - III Research Report Writing

14 hours

- Research Proposal and Report Writing and Citation Tools Structure, Style, Contents, Guidelines;
- Style Manuals; Online Citation Tools; Reference Style Management Tools;
- Anti-plagiarism Tools; Evaluation of Research Report.

Unit IV Research Metrics

- Metric Studies in LIS Bibliometrics, Scientometric, Webometrics, Altmetrics:
- Impact Factors Journal, Institutional and Authors; h-Index, g-Index, i10 Index.

• Research Trends in Library and Information Science

Suggested Readings

- 1. Charles H. Busha & Stephen, P. Harter. 1980. Research Methods in Librarianship: Techniques and Interpretation. New York: Academic Press
- 2. Goode, William J and Hatt, Paul K.2017. Methods in Social Research. Asia law House.
- 3. Goon, A.M. 2016. Fundamental of Statistics. Calcutta: World Press
- 4. Gopal, M. H: 1992. An Introduction to Research Procedure in Social Sciences. New Delhi, Vikas, Pub. House
- 5. Krishnaswami, O.R. 2013. Methodology of Research in Social Sciences. New Delhi : Himalaya
- 6. Leo, Egghe and Rousseau, Ronald. 2001. Elementary Statistics for Effective Library and Information Service Management. London: Aslib
- 7. Marurice, B. Line.1989. Library Surveys: an introduction to the use, planning procedure and presentation of surveys. 2nd ed. London: Bingley
- 8. Mary Lee, Bundi. 1983. Reader in Research Methods for Librarianship USA: Greenwood Press.
- 9. Powell, Ronad, R. 2004. Basic research methods for librarians. Norwood: Ablex
- 10.Powell, Ronald R. and Connaway, Lynn Silipigni. 2010. 5th Ed. Basic Research methods for Librarians. 4th ed. Westport: Libraries unlimited

Course Code: LIS.555

Course Title: Library Automation and Digital Library

L	T	P	Cr
0	0	4	2

I. Library Automation Practice

- Koha
- NewGenLib
- Other available software

II. Digital Library Software

- D-Space
- E-Print
- Greenstone

Course Code: LIS.556

Course Title: Engineering and Technological Library and

Information System

L	T	P	Cr
3	0	0	3

UNIT- I: Engineering and Technological Libraries and their Development 12 hours

Objectives and Functions

- History and Development of Libraries with Special Reference to India
- Role of Engineering and Technological Libraries
- Role of Agencies in the Growth and Development of Engineering and Technological
- Libraries in India

UNIT - II: Collection Development and Management

13 hours

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

UNIT – III: Library Organization and Administration and Information Services 10 hours

- Organizational Structure
- Staff Manual, Library Surveys, Statistics and Standards, etc.
- CAS, SDI, Abstracting and Indexing Services Library Bulletin, Newspaper Clipping Services Computerized Services
- Resource Sharing and Networking: INDEST AICTE Consortium
- Information Literacy Programmes

UNIT - IV: Financial and Human Resource Management

10 hours

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

Note: Reading list to be provided by the concerned teacher.

Course Code: LIS.557

Course Title: Technical Writing

Unit -1 Communication Process13 hours

- Overview of Communication Process
- Characteristics Features of Technical Writing
- Target Groups in Written Communication
- Reader-Writer Relation

L	T	P	Cr
3	0	0	3

Unit -2 Linguistics

10 hours

- Language as a Medium for Communication of Thought
- Functional English Style : Semantics, Syntax and Diction
- Readability and Text
- Aberrations in Technical Writing

Unit -3 Structure and Functions of Technical Communication 12 hours

- Structure : Definition, Purpose, Characteristics and Functions
- Collection, Organisation and Presentation of Data including Illustration
- Case Studies: Preparation of Short Communication, Review Article, Technical Reports, Monographs, Dissertations and House Bulletins

Unit -4 Technical Editing and Editorial Tools

10 hours

- The Editor
- Editorial Process
- Editorial Tools

Suggested Readings

- 1. Huckin, T.N. and Leslie, A.O. (1984). English for Science and Technology. New York: Mc Graw Hill.
- 2. IGNOU, (1989). Editing in Distance Education (IGNOU Handbook-6). New Delhi: IGNOU.
- 3. IGNOU, (1990). General Principles of Writing. New Delhi: IGNOU.
- 4. Reep, D.C. (2014). Technical Writing, Principles, Strategies, and Readings. Ed. 8th. Pearson.
- 5. Sherman, T.A. (2018). Modern Technical Writing. Franklin Classics.
- 6. Simon, A.R and Simon, J. (1993). Computer Professional's Guide to Effective Communications. New York: McGraw Hill.
- 7. SIS. (1990). Fourth Training Course in Technical Communication, Jodhpur: SIS. Wilcox, D.L. and Nolte, L. W. (1997). Public Relations Writing and Media Techniques. New York: Harper and Row Publishers.
- 8. Swain, D.V. and Swain, J.R. (1991). The Issue of Audience. In Scripting for the New Audio-Visual Technologies, 2nd ed. Chapter 4. Boston: Focal Press.
- 9. Taneja, R.D. (1990). Audience Analysis and Adaptation: In Fourth Training Course in Technical Communication. New Delhi: SIS.
- 10. Vallins, G.H. (1988). Good English. Bombay: Rupa.
- 11. Weisman, H. M. (1992). Basic Technical Writing. 6th Ed. Columbus: Charles Orenill Publishing.

Course Code:

Course Title: From MOOC (Compulsory Foundation)

Student can select any one course through MOOC

SEMESTER - IV

Course Code: LIS.571

Course Title: ICT and Networking Technology and Library

L	T	P	Cr
4	0	0	4

Networks

Unit - I Web Technology

14 hours

- Telecommunication Transmission Channels, Mode, and Media, ISDN, PSDN, Multiplexing, Modulation, Standards and Protocols.
- Wireless Communication Media, Wi-fi, Li-fi, Satellite Communication, Mobile Communication.

Unit - II Security

16 hours

• Data Security, Network Security, Firewalls, Cryptographic Techniques, Anti-virus software, Anti-spyware, Intrusion Detection System

UNIT – III – Basics of Programming Languages

14 hours

• Programming Languages – Object Oriented, Procedural, High Level, Scripting; Web Languages.

Unit - IV Semantic Web

16 hours

- Ontology Tools (RDF, RDFS, Potege); Semantic Web, Linked Data, Big Data, Data Mining, Data Harvesting.
- Application of Artificial Intelligence, Expert Systems and Robotics in Libraries;
- Social Mobile Analytics Cloud (SMAC);

- 1. Adler, S. and others. Extensible Stylesheet Language (XSL) Version 1.0, (W3C Recommendation accessed at http://www.w3.org/TR/xsl) 2000.
- 2. Benz, B. and Durant, JR. 2003. XML 1.1 Programming Bible (Covers J2EE, Java, Databases, Web Services and .NET). New Delhi: Wiley Publishing
- 3. Blood, Rebecca. 2009. The Weblog Handbook: Practical Advice on Creating and Maintaining Your Blog. Basic Books.
- 4. Bray, T., Hollander, D. and Layman, A. Namespaces in XML. (Accessed at http://www.w3.org/REC-xml-names/) 2nd Ed. 2006.
- 5. Bray, T. Ed. 4th. 2006. Extensible Markup Language (XML) 1.0, 2nd ed. W3C Recommendation, http://www.w3.org/TR/REC-xml
- 6. Darnell, R. and others. 2008. HTML 4 Unleashed: The Comprehensive Solution. New Delhi: BPB Publication

- 7. Bhumika S. Zalavadia (2016) Static and Dynamic Webpage Development with HTML, CSS, JavaScript, jQuery, PHP, MySQL and AJAX. Penram International Publishing (India) Pvt.Ltd
- 8. Hjelm, J. and Stark, P. 2002. XSLT: The Ultimate Guide to Transforming Web Data. New York: John Wiley
- 9. Mercer, D. 2001. XML: A Beginner's Guide. New York: McGraw Hill (Osborne)
- 10. Willinsky, John. 2009. Access Principle: Case for Open Access to Research and Scholarship. Cambridge: MIT Press, Digital Libraries and Electronic Publishing.

Course Title: Emerging Trends in LIS

L	T	P	Cr
4	0	0	4

Unit - I Web Based Services

8 hours

• Mobile based Library Services and Tools – Mobile OPAC, Mobile Databases, Mobile Library Website, Library Apps, Mobile Library Instructions, Augmented Reality, SMS Alerts, Geo-Location, Reference Enquiry.

Unit - II Web Technology

7 hours

- Web 2.0 and 3.0 Library 2.0- Concept, Characteristics, Components; Instant Messaging, RSS Feeds, Podcasts, Vodcasts, Ask a Librarian
- Web Scale Discovery Services

Unit - III Social Web Networks

7 hours

- Collaborative Services- Social Networks, Academics Social Networks, Social Tagging, Social Bookmarking.
- Twitter, Facebook etc

Unit IV - Content Management Systems

8 hours

- Content Management Systems Architecture, Data Integration, CMS Software Selection, Implementation and Evaluation.
- Research Information Management System Definition, Need & Objective
- Research Information Management Tools (VIVO, Harvard Profile, IRINS)

- 1. Adler, S. and others. Extensible Stylesheet Language (XSL) Version 1.0, (W3C Recommendation accessed at http://www.w3.org/TR/xsl)
- 2. Benz, B. and Durant, JR.2003. XML 1.1 Programming Bible (Covers J2EE, Java, Datadases, Web Services and .NET). New Delhi: Wiley Publishing

- 3. Blood, Rebecca. 2002. The Weblog Handbook: Practical Advice on Creating and Maintaining Your Blog. Cambridge: Perseus Publishing
- 4. Bray, T., Hollander, D. and Layman, A. Namespaces in XML. (Accessed at http://www.w3.org/REC-xml-names/)
- 5. Bray, T.. 2000. Extensible Markup Language (XML) 1.0, 2nd ed. W3C Recommendation, http://www.w3.org/TR/REC-xml
- 6. Darnell, R. and others. 1999. HTML 4 Unleashed: The Comprehensive Solution. New Delhi: Techmedia
- 7. Goodman, D. 1998. Dynamic HTML: Definitive Reference. Cambridge: O'Reilly
- 8. Hjelm, J. and Stark, P. 2002. XSLT: The Ultimate Guide to Transforming Web Data. New York: John Wiley
- 9. Mercer, D. 2001. XML: A Beginner's Guide. New York: McGraw Hill (Osborne)
- 10. Willinsky, John. 2006. Access Principle: Case for Open Access to Research and Scholarship. Cambridge: MIT Press, Digital Libraries and Electronic Publishing.

Course Title: Academic Library and Special Library Systems

L	T	P	Cr
2	0	0	2

UNIT- I – Academic Library and Collection Development 8 hours

- Academic Libraries: Definition, Aims, Objectives and Roles.
- Role of UGC in the development of academic libraries in India.
- Library Collection: Types and Character.
- Collection Development Policy: Concept, Significance and Elements, Patron-Driven Acquisition (PDA). Collection assessment and evaluation methods Quantitative and Qualitative tools/approaches. Marketing of Academic Library Services and Products. Activities and tools of marketing in academic libraries.

UNIT- III Financial Management and HRM of Academic Library: 8hours

- Financial Management: Concept and Sources of finance.
- Library Expenditure: Principles and Classification of Library Expenditure.
- Methods of Financial Estimation.
- Budgetary Standards and Norms.
- Preparation of Library Budget: Calculation of Expenditure,
- Contents of a Budget Document, Principles of Budget-making.
- Auditing: Concept, Types of Audit (Pre and Post Audit).
- Human Resource Management (HRM) in Academic Libraries: Categories of Manpower.
- Staffing and Recruitment.

• Significance of Leadership and Motivation.

Unit – III Special Libraries:

7 hours

- Special Libraries Concept, role, characteristics, and functions.
- Development of special libraries in India.
- Role of IASLIC.
- Library and Information Policy at National Level in India.

Unit - VI Special Library Organization and Administration: 7 hours

- Collection Development of and Management of Government documents, maps, manuscripts, newspaper clippings, serials, specifications (patents and Standards) technical reports, theses.
- Financial Management auditing: Sources of finance, budgeting techniques. Accounting and Auditing.
- Manpower development and recruitment: Qualifications, Job Description, Staff Manual.
- Library Building: Principles, planning and features. Information Services:
- Resource Sharing: Concept, Areas, Factors of Development.

- 1. Cowley, John. (1982). Personal Management in Libraries. Clive Bingley.
- 2. Dale, Penny; Beard, Jill & Holland, Matt (2017). University Libraries and Digital Learning Environment. Ashgate.
- 3. Evans, G E.(1983). Management Techniques for Librarians. Academic Press.
- 4. Felicia Etim (2016). Quality Services in Academic Libraries. Authorhouse
- 5. Galvin, TJ. (1979). The Structure and Governance of Library Networks. New York: Marcel Dekker.
- 6. Gurdev Singh. (2015). Academic Library System and Services. ESS ESS.
- 7. Hingwe, K S. (1982). Management of University Libraries in India. The World Press. Kent, A &
- 8. Khan Rajib Hossain (2015) University Library Systems and Services, LAP Lambert Academic Publishing
- 9. Krishan Kumar. (1987). Library Administration and Management. Vikas.
- 10. Kylie Bailin, Benjamin Jahre, Sarah Morris (2018) Planning Academic Library Orientations: Case Studies from Around the World, Chandos Publishing, Cambridge
- 11. Matarazzo , James M .(2013). Toby Pearlstein Special Libraries: A Survival Guide. Libraries Unlimited.

- 12. Mishra R. K. (2013) Special Library System and Information Services. Anmol.
- 13. Mittal, R L. (2007). Library Administration: Theory and Practice. Ess Ess.
- 14. Mount, Ellis, & Renée Massoud. (1999) Special Libraries and Information Centers: An Introductory Text. . Washington, DC: SLA Publishing,
- 15. Nasirudheen T. (2018). Library Movement and Development in India: A State Wise Scan. Ess Ess Publications.
- 16. R.S. Aswal (2003). Information Networks in India EssEss.
- 17. Ranganathan, S R. (1989). Library Book Selection. Sarada Rangnathan Endowment for Library Science.
- 18. Semertzaki, Eva (2011).Special Libraries as Knowledge Management Centres, Chandos Publishing.
- 19. Shumaker, David. (2011). Special Libraries. In Encyclopedia of Library and Information Sciences, New York: Taylor and Francis.

Course Code: LIS.574 Course Title: Overview: ICT, Digital Library and Library						L	T	P	(
		Overview:	ICT,	Digital	Library	and	Library	0	2	0	
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Unit - I

- Management Principles, Functions and Schools of thought.
- Library and Information Centers Management Book Selection Tools and Principles; Library Acquisition, Technical Processing, Circulation, Serial Maintenance and Stock Verification; Preservation Conservation; Hazards and Control Measures of Library Materials.
- Resource Management Planning, Job Analysis, Description, Job Evaluation, Selection, Recruitment, Motivation, Training and Development, Performance Appraisal; Staff Manual.
- Financial Management in Libraries Sources of Finance, Resource Mobilisation, Budgeting Methods; Cost Effective and Cost Benefit Analysis, Annual Reports & Statistics; Library Authority and Committee.
- Project Management SWOT, PEST, PERT / CPM.
- Total Quality Management (TQM) Concepts, Principles and Techniques, Six Sigma; Evaluation of Services of Libraries and Information Centers.
- Library Building, Furniture and Equipments; Green Library Building; Information Commons; Makers Space; Security and Safety.
- Management Information System (MIS), MBO, Change Management, Disaster Management, Crisis Management.
- Knowledge Management Principles, Tools, Components and Architecture.
- Marketing of Library Products and Services Plan, Research, Strategies, Mix, Segmentation, Pricing and Advertising; Management Consultancy.

Unit - II

- Computer Technology Character Representation (ASCII, ISCII, Unicode); Computer Hardware, Software; Storage Devices; Input and Output Devices.
- Types of Software System Software, Application Software.
- Programming Languages Object Oriented, Procedural, High Level, Scripting; Web Languages.
- Telecommunication Transmission Channels, Mode, and Media, ISDN, PSDN, Multiplexing, Modulation, Standards and Protocols.
- Wireless Communication Media, Wi-fi, Li-fi, Satellite Communication, Mobile Communication. Computer Networks - Topologies, Types of Networks – LAN, MAN, WAN.
- Internet Web browsers, WWW, E-mail; Search Engines, Meta and Entity Search engines.
- Internet Protocols and Standards HTTP, SHTTP, FTP, SMTP, TCP/IP, URI, URL.
- Hypertext, Hypermedia, Multimedia, Video conferencing, Virtual Reality, Augmented Technologies.
- Data Security, Network Security, Firewalls, Cryptographic Techniques, Anti-virus software, Anti-spyware, Intrusion Detection System.
- Web 2.0 and 3.0 Library 2.0- Concept, Characteristics, Components; Instant Messaging, RSS Feeds, Podcasts, Vodcasts, Ask a Librarian
- Collaborative Services- Social Networks, Academics Social Networks, Social Tagging, Social Bookmarking.
- Web Scale Discovery Services
- National Information Systems and Networks: NISCAIR, DESIDOC, SENDOC, ENVIS, INFLIBNET, DELNET, NICNET, ERNET, National Knowledge Network (NKN), Biotechnology Information System Network
- International Information Systems and Networks: INIS, AGRIS, INSPEC, MEDLARS, BIOSIS, ERIC, Patent Information System (PIS), Biotechnology Information System (BIS).
- Library Resource Sharing and Library Consortia National and International.

Unit - III

- Library Automation Areas, Planning, Selection of Hardware and Software, Implementation and Evaluation; Standards for Library Automation.
- Barcode, RFID, QR Code, Biometric, Smartcard: Features and Applications.
- Digitization Planning, Selection of Materials, Hardware, Software, Process, Issues.
- Digital Library: Genesis, Characteristics, Types, Architecture; Standards, Formats and Protocols, DOI.

- Digital Preservation Need, Purpose, Standards, Methods, Techniques, Projects (National and International).
- Digital Library Initiatives National and International.
- Institutional Repositories Need, Purpose, Types and Tools; Institutional Repositories in India; ROAR, DOAR, SHARPA-ROMIO.
- Content Management Systems Architecture, Data Integration, CMS Software Selection, Implementation and Evaluation.
- Application of Artificial Intelligence, Expert Systems and Robotics in Libraries; Social Mobile Analytics Cloud (SMAC); Cloud Computing.
- Ontology Tools (RDF, RDFS, Potege); Semantic Web, Linked Data, Big Data, Data Mining, Data Harvesting.
- Community Information Services.
- Reference Service Concept and Types; Referral Services
- Alerting Services CAS, SDI, Inter Library Loan and Document Delivery.
- Mobile based Library Services and Tools Mobile OPAC, Mobile Databases, Mobile Library Website, Library Apps, Mobile Library Instructions, Augmented Reality, SMS Alerts, Geo-Location, Reference Enquiry.

Unit - IV

- Research Concept, Purpose, Functions, Scope and Ethics; Types of Research Basic and Applied, Interdisciplinary and Multidisciplinary.
- Research Methods: Historical, Descriptive, Experimental and Delphi.
- Research Design Selection of Research Problem, Review of Literature; Formulation of Research Problem; Hypothesis Formulation, Types and Testing; Sampling Techniques.
- Methods of Data Collection: Questionnaire, Interview, Observation, Library Records, Scales and Checklist.
- Data Analysis and Interpretation Presentation of Data; Statistical Methods/ Techniques.
- Statistical Packages Spreadsheet, SPSS, Bibexcel, 'R' Statistics.
- Research Report Writing and Citation Tools Structure, Style, Contents, Guidelines; Style Manuals; Online Citation Tools; Reference Style Management Tools; Antiplagiarism Tools; Evaluation of Research Report.
- Metric Studies in LIS Bibliometrics, Scientometric, Webometrics, Altmetrics; 9. Impact Factors Journal, Institutional and Authors; h-Index, g-Index, i10 Index.
- Trends in Library and Information Science Research.

Transaction Mode

Interactive lectures, question-answer sessions, discussions, self-study, group discussion, collective thinking, presentation for sharing and interpreting, debates to understand divergent issues, Buzz groups to engage in learning process, Seminar presentation, Group discussion, Team teaching

Suggested Readings

- CBSE UGC-NET/SET: Library & Information Science (Paper II & III) Guide (Popular Master Guide)
- UGC NET/JRF/SET Library And Information Science (Paper-II)
- Trueman's UGC NET Library & Information Science

L	T	P	Cr
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Course Code: LIS.575

Course Title: Overview: Information Sources, Systems and Services Automation

Unit – I

- Data, Information, Knowledge and Wisdom.
- Information Life Cycle Generation, Collection, Storage and Dissemination.
- Role of Information in Planning, Management, Socio-economic, Cultural, Educational and Technological Development.
- Information Science Relationship with other subjects, Information Society and Knowledge Society.
- Communication Concept, Types, Theories, Models, Channels and Barriers; Trends in Scholarly Communication.
- Information Industry Generators, Providers and Intermediaries.
- IPR and Legal Issues Categories, Conventions, Treaties, Laws.
- Plagiarism: Concept and Types.
- Right to Information Act (RTI); Information Technology Act.
- National Knowledge Commission; National Mission on Libraries.

Unit - II

- Historical Development of Libraries in India; Committees and Commissions on Libraries in India.
- Types of Libraries Academic, Public, Special and National.
- Library Legislation and Library Acts in Indian States; The Press and Registration of Books Act; The Delivery of Books and Newspapers (Public Libraries) Act.
- Laws of Library Science.
- Library and Information Science Profession Librarianship as a Profession, Professional Skills and Competences; Professional Ethics.
- Professional Associations National ILA, IASLIC, IATLIS; International IFLA, ALA, CILIP, ASLIB, SLA; Role of UGC, RRRLF and UNESCO in Promotion and Development of Libraries.
- Library and Information Science Education in India.
- Library Public Relations and Extension Activities.
- Type of Users User Studies, User Education.
- Information Literacy Areas, Standards, Types and Models; Trends in Information Literacy.

Unit - III

- Information Sources Nature, Characteristics, Types and Formats.
- Sources of Information Primary, Secondary and Tertiary; Documentary and Non-Documentary.
- Primary Information Sources (Print and Electronic) Journals, Conference Proceedings, Patents, Standards, Theses & Dissertations, Trade Literature.
- Secondary Information Sources (Print and Electronic) Dictionaries, Encyclopedias, Bibliographies, Indexing & Abstracting, Statistical sources, Handbooks and Manuals.
- Tertiary Information Sources (Print and Electronic)- Directories, Year Books, Almanacs.
- Reference Sources Bibliographical, Biographical, Educational, Language and Geographical.
- Electronic Information Resources Subject Gateways, Web Portals, Bulletin Boards, Discussion Forums / Groups.
- Databases: Bibliographic, Numeric, Full text, Multimedia; Open Access Databases.
- Institutional and Human Resources. 10. Evaluation of Reference Sources and Web Resources.

Unit - V

- Universe of Knowledge Nature and Attributes; Modes of Formation of Subjects.
- Knowledge Organisation Classification Theories, Cannons, and Principles; Simple Knowledge Organisation System (SKOS), Taxonomies, Folksonomy, Trends in Classification.
- Mapping of Subjects in Library Classification Schemes DDC, UDC and CC.
- Knowledge Organisation: Cataloguing Cannons and Principles; Centralized and Co-operative Catalogue; Library Cataloguing Codes: CCC and AACR - II.
- Standards of Bibliographic Record Formats and Description ISBD, MARC 21, CCF, RDA, FRBR, Bibframe.
- Standards for Bibliographic Information Interchange & Communication ISO 2709, Z39.50, Z39.71.
- Metadata Standards: Dublin Core; MARC21, METS, MODES, EAD. Indexing Systems and Techniques: Assigned Pre-coordinate; Post-Coordinate; Derived-Title-based; Vocabulary Control.
- Abstracting Types and Guidelines.
- Information Retrieval System Features, Components, Models and Evaluation.

Transaction Mode

Interactive lectures, question-answer sessions, discussions, self-study, group discussion, collective thinking, presentation for sharing and interpreting, debates to understand divergent issues, Buzz groups to engage in learning process, Seminar presentation, Group discussion, Team teaching

Suggested Readings

- 1. CBSE UGC-NET/SET: Library & Information Science (Paper II & III) Guide (Popular Master Guide)
- 2. Trueman's UGC NET Library & Information Science
- 3. UGC NET/JRF/SET Library And Information Science (Paper-II)

Course Code: LIS.580

Course Title: Agriculture Information Source and Systems

L	T	P	Cr
3	0	0	3

UNIT - I: Agricultural Science Libraries and their Development

13 hours

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

- **10 hours**e. Patents.
- Periodicals, Conference Literature, Grey Literature, Patents, Standards, Specifications and Government Publications, etc.
- Non-Book Materials
- Electronic Resources and Online Databases

UNIT - III: Library Organization, Administration and Information Services 12 hours

- Organizational Structure
- Staff Manual, Library Surveys, Statistics and Standards, etc.
- 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 – IV: Financial and Human Resource Management 10 hours

- Determination of Finance, Sources of Finance
- Types of Budget
- Nature, Size, Selection, Recruitment, Qualification and Training

- Responsibilities and Duties
- Competency Development

Suggested Readings

- 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.

Course Code: LIS.581

Course Title: Social Science Information Sources and Systems

]	Ĺ	T	P	Cr
	3	0	0	3

Unit – I Structure and Development of Social Sciences

13 hours

• **Social Sciences:** Definition, scope, landmarks and research trends in the disciplines of Political Science, Economics, Sociology, Psychology, History.

Unit - II Social Science Information Sources

12 hours

Evaluation of the following Information sources:

- Print and non-print, electronic and Web-based British Humanities Index. Current Sociology. Historical Abstracts. International Bibliography of the Social Sciences. Political Science Abstracts. Population Index. Social Science Citation Index. Sociological Abstracts. UN Demographic Yearbook. Business Periodicals Index. New Palgrave Dictionary of Economics. Social Science Index.
- Gazetteer of India. PAIS International. Wealth of India. Wilson Social Science abstracts. ECONLIT, PsychINFO, RePEC.

Unit - III Social Science Information Institutions

10 hours

Study of the following Social Science Institutions engaged in information generation and dissemination:

• Centre for Policy Research. ICSSR. ICWA. Institute for Defence Studies and Analysis. Indian Institute of Public Administration National Council for Applied Economic Research. National Institute of Public Finance and Policy. Tata Institute of Social Sciences. UNESCO. Indian Council of Historical Research. Institute of Economic Growth.

Unit - IV Social Science Information System

13 hours

 Concept and evaluation. Evaluation of existing Information Associations, Systems and Networks in Social Sciences at national and international level. International Political Science Association. International Sociological Association. Socio Site. International Social Science Council (ISSC). International Committee for Social Science Information and Documentation (ICSSD). Social Science Research Network (SSRN).

Suggested Readings:

- 1. Agrawal, S.P. (1987). Social science information and documentation: search for relevance in India. New Delhi: Concept Pub.
- 2. Agrawal, S.P. (1989). Development of library services in India: social science information. New Delhi: Concept.
- 3. Association of Librarians and Information Professionals in the Social Sciences. (2010).
- 4. Innovations in social sciences information and research support. London: Association of
- 5. Librarians and Information Professionals in the Social Sciences.
- 6. Binwal, J.C. (Ed.). (1990). Social science information: problems and prospects. New
- 7. Delhi: Vikas Pub.
- 8. Birdsall, W. F. (1994). Myth of electronic library: librarianship and social change in
- 9. America. Westport: Greenwood.
- 10. Bulick, S. (1982). Structure and subject interaction: towardx a sociology of knowledge in the social sciences. New York: Marcel Dekker.
- 11. Harmon-Jones, E. & Winkelman, P. (2006). Fundamentals of social science. New York: Guilford.
- 12. Indian Association of Social Science Institutions. (2012). National social science information system On-going and completed research projects in society related study area (2008-10). New Delhi: Indian Association Social Science Institutions
- 13. Research Centre on the Social Implications of Industrialization in Southern Asia. (1956).

- 14. Research information bulletin: social science projects in Southern Asia. Calcutta:
- 15. Research Centre on the Social Implications of Industrialization in Southern Asia.
- 16. British Library. (2006). Social science search: the complete research service. London: British Library.
- 17. Tyagi, K.G. & Johry, N. (Eds.). (2001). Directory of social science libraries and information centres in India. New Delhi: NASSDOC.
- 18. UNESCO, Social & Human Sciences Documentation Centre. (1988). Selective inventory of social science information and documentation services (3rd ed.). Berg: UNESCO.
- 19. Vyas, S.D. (1992). Social science information in India: error towards bibliographical control. New Delhi: Concept.
- 20. Rama Reddy, E. (1985). Social science information: some Indian sources. New Delhi: Affiliated East-west.
- 21. Related sources and websites of various Institutions in the field of Social Sciences.

Course Code: LIS.582

Course Title: Public Library and Community based information System

L	T	P	Cr
3	0	0	3

Unit – I – Public Library

13 hours

- Meaning, importance, functions.
- Role of Public Library in literacy and mass education.
- Public Library Movement in India: Recommendation by S.R. Ranganathan, Advisory Committee for India, UNESCO manifesto, Role of Raja Ram Mohan Roy Library Foundation (RRRLF) and National Library (Kolkata).
- Organisation of Public Library System: National, regional and State, Library governance.

Unit - II - Public Library Legislation in India

10 hours

- Study of salient features of existing library acts in India: Andhra Pradesh, Arunachal Pradesh, Bihar, Chattisgarh, Goa, Gujarat, Haryana, Karnataka, Kerala, Maharashtra, Manipur, Mizoram, Odisha, Rajasthan, Tamilnadu, Uttar Pradesh, Uttaranchal, West Bengal.
- Library and Information Policy: Library and Information
- Policy at National and International level in India.

Unit – III Organization of a Public Library

12 hours

- Manpower Development: Qualifications, recruitment, job description. Job analysis, staff manual.
- Library Finance: Sources, budgeting, accounting and auditing. Library Building and Equipment Planning, Concept of Modular Equipment Building. Library Furniture and Equipment.
- Collection Development: Print, Non Print (including Electronic documents. Organization of various Sections: Periodical, Technical, Reference, Circulation and Maintenance Section.

Unit – IV Resource, Sharing and Automation:

10 hours

- Networking, Integrated public library system.
- Library Automation: Automating the house- keeping services in various sections in the public libraries.
- Library services to special groups of people including physically handicapped, mentally challenged, visually impaired, Prisoners and Children.

Suggested Readings

- 1. American Library Association. (1967) Minimum Standards for Public Library Systems. Chicago. ALA.
- 2. Barua, B P. (1992). National Policy on Library and Information Systems and Services for India: Perspectives and Projections. Popular.
- 3. Batt, Chris. (1998). Information Technology in Public Libraries. Library Association.
- 4. Corbett, E V. (1979). Fundamentals of Library organization and Administration. New York: Oxford IBH.
- 5. FAO, Agricultural information & documentation systems 1986.
- 6. Gardner, F M. (1978). Public Library Legislation: A Comparative Study. UNESCO.
- 7. Garforth, C. (2001). Agricultural knowledge and information systems in Hagaz, Eritrea. SD Dimensions. FAO
- 8. Gates, J K. (1990). Introduction to Librarianship. Neal-Schuman.
- 9. IFLA. IFLA Guidelines for Public Libraries. (2010) The Hague: IFLA
- 10. IFLA. The Public Library Service: IFLA/UNESCO Guidelines for development. (2001)
- 11. <u>John Carlo Bertot</u>, <u>Charles R. McClure</u> and Paul T. Jaeger (2010) Public Libraries and the Internet: Roles, Perspectives, and Implications, Libraries Unlimited
- 12. Leeuwis, C. (2015). 3rd Ed. Communication for rural innovation: rethinking agricultural extension. Blackwell Science.
- 13. Martin, Lowell A. (2003). Enrichment: A history of the Public Library in the United States in the Twentieth Century. Scarecrow.

- 14. Murison, W J. (1988). The Public Library: Its origin, purpose and significance. Clive Bingley.
- 15. Otsuka, Keijiro. Kalirajan K P. (2008). Agriculture in developing countries: technology issues. Sage
- 16. Patel, Jashu & Krishan Kumar (2004). Libraries and Librarianship in India. Westport: Greenwood
- 17. Ramirez, R. (1997). Understanding farmers' communication networks: combining PRA with agricultural knowledge systems analysis. International Institute for Environment and Development
- 18. Ranganathan, S R. (1959). Library Administration. Bangalore: SRELS.
- 19. Röling, Niels G (1988). Extension science: information systems in agricultural development. Cambridge University Press
- 20. Sharma, C D & Ojha D C (1989) Information systems: agriculture and environment. RBSA.
- 21. Shera, Jesse H. (2017). Foundations of the Public Library: The Origins of the Public Library Movements in New England (1629-1855). Andesite Press.
- 22. Spedding, C.R.W. (2012). An introduction to agricultural systems. (2nd. ed). Springer
- 23. Venkatappaiah, V. (1990). Indian Library Legislation. Vol.I&II Union Library Bills and Acts. Daya Publishing House.
- 24. White, Horbert S. (1985). Library Personnel Management. Knowledge Industry Publications.

Course Code: LIS.583
Course Title: Business Information Systems

L	T	P	Cr
3	0	0	3

Unit - I Business Information:

12 hours

10 hours

- Nature and characteristics: Its role, generation and utilization.
- Systems view of business information. Components of Business Information Systems:
- Resources, centres, consultants, suppliers, financial organisations, industrial promoters, etc. Users of business information: Categories, role, functions, and need.

Unit – II Business Information Sources and Products

 Sources of Information: Directories, Digests, Market, Research Reports, Trade Literature, Technical Notes, Company Profiles, Patent, Design and Trade Marks, Standards, Databases. Information services: CAS, SDI, Technical Enquiry Service, other computerised services

Unit – III Business Information Institutions and Networks 13 hours

• Information Networks: overview of Business Information Networks. Institutional: national and international: Studies related to the activities of: NIDCS, IIFT, ITPO, CII, FICCI, UNIDO, UNCTAD

Unit - IV Organising Business Information for End user Support 10 hours

- Database System: Business Measurement System
- Business Planning System. Text Management System: Text retrieval system
- Office systems Management Support Systems: Decision support systems; information centres.
- Resources of Business Information, CMIE

Suggested Reading

- Atherton, P. (1980). Handbook for information systems and services. In Handbook for information systems and services. Paris: UNESCO.
- Campbell, M.J. (Ed.). (1975). Manual of business library practice. NY: Shoe String
- Curtis, G., & Cobham, D. (2008). Business information systems: Analysis, design and practice. NY: Pearson Education.
- Kourouthanassis, Panos & Giaglis, George M .(2016).Pervasive information systems. Routledge.
- Kushniruk, Andre W & BoryckiHuman, Elizabeth (2008). Human, Social, and organizational aspects of health information systems. Hershey
- PressInc.

Course Code: LIS.584

Course Title: Health Sciences Information Systems

L	T	P	Cr
3	0	0	3

Unit – I Health Science Information

12 hours

• Growth and development of Health Science. Types of Health Science libraries/information centres. Information Services: Current Awareness Service, SDI service, Indexing and abstracting service, Literature search. Users of Health Science information.

Unit - II Health Science Information Sources

10 hours

• Sources of Information: Documentary: Printed and non-print. (list to be provided by the concerned teacher).

Unit -III Health Science Information Institutions

13 hours

• National Medical Library. WHO. ICMR. Department of Biotechnology. Council of Ayurveda and Siddha. Council of Homeopathy. National

Institute of Health and Family Welfare. CDRI. CFRI. CFTRI. NIN. NII. NIC

Unit – IV Information Systems and Networks

10 hours

• HELLIS, MEDLARS, BIOSIS. Trends in Health Science Information System. Application of Hypertext, Hypermedia, Multimedia. Expert System and Artificial Intelligence.

Suggested Reading

- 1. Balgrosky, Jean A. (2015). Essentials of health information systems and technology. Jones & Bartlett.
- 2. Carmel, M. (Ed.). (1995): Health care librarianship and Information work. (22nd ed.). Library Assn Pub Limited.
- 3. Dixit, R.P. (1995). Information management in Indian medical libraries. New Delhi: New Concepts.
- 4. Dixon, Brian. (2016). Health Information Exchange: Navigating and Managing a Network of Health Information Systems. Academic Press.
- 5. Gupta, S.P. (1993). Information technology and health science libraries. New Delhi: MLAI SP. Pub.
- 6. Kushniruk, Andre W & Borycki Human, Elizabeth (2008). Human, Social, and organizational aspects of health information systems. Hershey
- 7. Magnuson, J., Fu, Jr., P. C. (2014). Public health informatics and information systems. Springer.
- 8. McGlynn, Elizabeth A; Brook, Robert H & Kerr, Eve A .(1998).Health Information Systems: Design Issues and Analytic Applications.Rand
- 9. Michelsen, Kai.(2015).Promoting better integration of health information systems: best practices and challenges. WHO
- 10. Rodrigues, Joel. (2010). Health information systems: concepts, methodologies, tools, and applications. Hershey
- 11. Siuly, S., Lee., et.al (2018). Health information systems. Springer.
- 12. Skurka, Margaret Flettre. (2017). Health information management: principles and organization for health information services. Wiley

Course Code: LIS.585

Course Title: Information Analysis, Consolidation, and Repackaging

Ī	L	T	P	Cr
	3	0	0	3

Unit – I Information Analysis, Consolidation and Repackaging 13 hours

- Concept, need and process.
- Guiding Principles for arrangement and presentation of idea in a helpful sequence.

• Information Consolidation Products: Concepts, types, design, development and methodology. Knowledge and skills required for information analysis and consolidation.

Unit - II Information Products

10 hours

- Nature, concept, types, design and development.
- Information News-letters, Hand Books, House Bulletins, In-house Communication, Trade Bulletin, Product Bulletin, State-of-the-Art Report, Trend Report, Technical Digests

Unit - III Content Analysis, Abstract and Abstracting

10 hours

- Content Analysis: Concept types and processes.
- Abstract: Definition and types, Characteristics and Qualities of good abstracts.
- Abstracting: need, process.
- Computers and Abstracting.
- Abstracting organizations and Services.

Unit – IV Planning, Management and Marketing of an Information Analysis & Consolidation Unit 12 hours

- Planning and Management of Information Analysis and Consolidation Units.
- Marketing of Information Concept, need and benefits;
- 5 Ps of Information Marketing;
- Marketing of profit and non- profit organization;
- Trends in marketing of Information Services and Information Marketing in India.

Suggested Readings

- 1. Singh, Sewa (2014).Information analysis, consolidation and repackaging. Atlantic Publishers & Distributors Pvt Ltd
- 2. Cleveland, D. & Cleveland, A. (2013) Introduction to indexing and Abstracting. (4th ed).
- 3. Englewood: Libraries Unlimited.
- 4. Megan (2015). Digital content creation. Rosen Young Adult
- 5. Gupta, B.M. (Ed.). (1988-2000). Handbook of libraries, archives and information centres in India. (Vols 16.) New DelhiSouth Asia Books.
- 6. Koltay, T. (2010). Abstracts and abstracting: a genre and set of skills for the 21st century. Oxford, Chandos
- 7. Saracevic, T. & Wood, J.S. (1981). Consolidation of information: A handbook of evaluation, restructuring and repackaging of scientific and technical information. Paris: UNESCO.
- 8. Seetharama, S. (1997). Information consolidation and repackaging. New Delhi: Ess Ess Pub.

9. Bhattacharya, G. & Gopinath, M.A.(Eds). (1981) Information Analysis and Consolidation: Principles, procedures and products. In DRTC Annual Seminar No. 18. Bangalore: DRTC.

Course Code: LIS.544
Course Title: Seminar

L	T	P	Cr
0	0	2	1

Each student to present two seminar in a semester which will be evaluated by the three internal faculty members. The criteria will be as follow:

- Selection of topic
- Presentation
- Interaction/response

Course Code: LIS.599

Course Title: - Project Work

L	T	P	Cr
0	0	12	6

The Work for Paper shall start in the beginning of the forth semester for which each student will be allotted a topic for writing the Project Report. The Project Report will be submitted at the end of forth semester on the date to be decided by the Department.