(Scheme of Examination)
Masters of Library and Information Science
(M.Lib.I.Sc.) 2-Year Integrated
SEMESTER - I

Paper Code	Course Type	Nomenclature of Course	Total Credits	IA Theory	Max. Marks Theory	Total Marks	Duration of Exam (Hours)
U25LIS101T	DSC	Fundamentals of Library and Information Society	4	30	70	100	3 Hours
U25LIS102T	DSC	Information Communication Technology (Theory)	4	30	70	100	3 Hours
U25LIS103T	DSC	Knowledge Organization: Classification Theory	2	15	35	50	2 Hours
U25LIS104P	DSC (Practicum)	Knowledge Organization: Classification Practice	2	15	35	50	2 Hours
U25LIS105P	DSC (Practicum)	Information Communication Technology (Practice)	4	30	70	100	3 Hours
U25LIS111T	DEC	Academic Library Systems	4	30	70	100	3 Hours
U25LIS112T	DEC	Public Library Systems					
U25VAC121T	VAC	Media Literacy	2	15	35	50	2 Hours
Total			**22**	**165**	**385**	**550**	

Note: A student who successfully completes the first year shall be awarded a Bachelor of Library and Information Science / PG Diploma in Library and Information Science and if the student continues for the next year and completes the course successfully, he will be awarded a Master Degree in Library and Information Science. Likewise, a student having a Bachelor's Degree in Library & Information Science/ PG Diploma in Library and Information Science from any recognized University may get admission in the second year of Master of Library & Information Science, as per university rules, subject to availability of seats.

(Scheme of Examination)
Masters of Library and Information Science
(M.Lib.I.Sc.) 2-Year Integrated
Semester II

Paper Code	Course Types	Nomenclature of Course	Total Credits	IA Theory	Max. Marks Theory	Total Marks	Duration of Exam (hours)
U25LIS201T	DSC	Management of Libraries and Information Centers	4	30	70	100	3 Hours
U25LIS202T	DSC	Information Sources, Services and E-Resource Management	4	30	70	100	3 Hours
U25LIS203T	DSC	Knowledge Organization: Cataloguing Theory	2	15	35	50	2 Hours
U25LIS204P	DSC (Practicum)	Knowledge Organization: Cataloguing Practice	2	15	35	50	2 Hours
U25LIS211T	DEC	Basic Communication Skills	4	30	70	100	3 Hours
U25LIS212T	DEC	E- Learning					
U25LIS201S	Seminar	Seminar	2	15	35	50	
U25LIS201I	Internship	Internship	4	-	-	100	

Note: A student who successfully completes the first year shall be awarded a Bachelor of Library and Information Science / PG Diploma in Library and Information Science and if the student continues for the next year and completes the course successfully, he will be awarded a Master Degree in Library and Information Science. Likewise, a student having a Bachelor's Degree in Library & Information Science/ PG Diploma in Library and Information Science from any recognized University may get admission in the second year of Master of Library & Information Science, as per university rules, subject to availability of seats.

(Scheme of Examination)
Masters of Library and Information Science
(M.Lib.I.Sc.) 2-Year Integrated
SEMESTER - III

Paper Code	Course Type	Nomenclature of Course	Credits	Internal Marks	External Marks	Marks	Duration of Exam in Hours
U25LIS301T	DSC	Information Storage and Retrieval	4	30	70	100	3
U25LIS302T	DSC	Collection Development and E-Resource Management	4	30	70	100	3
U25LIS303T	DSC	Information Resources in Social Sciences	4	30	70	100	3
U25LIS304T	DSC	Advanced Information and Communication Technologies (Theory)	4	30	70	100	3
U25LIS311T	DEC*	Information, Communication and Society	4	30	70	100	3
U25LIS312T		Information, Communication and Policies					
	OEC	To be opted from pool of OEC (Other Deartment)	2	15	35	50	2
		Total	22			550	

***Select one DEC**

Note: A student having a Bachelor's Degree in Library & Information Science from any recognized University may get admission in the second year of Master of Library & Information Science, as per university rules, subject to availability of seats.

Semester IV (Option A)

Paper Code	Course Type	Nomenclature of Course	Credits	Internal Marks	External Marks	Marks	Duration of Exam in Hours
U25LIS401T	DSC	Research Methods and Statistical Techniques	4	30	70	100	3
U25LIS402T	DSC	Informetrics and Scientometrics	4	30	70	100	3
U25LIS403T	DSC	Library and Information Centre Management	4	30	70	100	3
U25LIS404P	DSC (Practicum)	Advanced Information and Communication Technologies (Practice)	4	30	70	100	3
U25LIS411T	DEC*	Digital Library	4	30	70	100	3
U25LIS412T		Database and Metrics Practice					
	SEC/EEC /VOC	To be opted from pool of SEC/EEC/VOC	2	15	35	50	2
		Total	22			550	

***Select one DEC**

Semester IV (Option B)

Paper Code	Course Type	Nomenclature of Course	Credits	Internal Marks	External Marks	Marks	Duration of Exam in Hours
U25LIS401T	DSC	Research Methods and Statistical Techniques	4	30	70	100	3
U25LIS411T	DEC*	Digital Library	4	30	70	100	3
U25LIS412T		Database and Metrics Practice					
U25LIS401D	Dissertation	Dissertation	12			300	
	SEC/EEC /VOC	To be opted from pool of SEC/EEC/VOC	2	15	35	50	2
		Total	22			550	

***Select one DEC**

Note: A student having a Bachelor's Degree in Library & Information Science from any recognized University may get admission in the second year of Master of Library & Information Science, as per university rules, subject to availability of seats.

For the pool of SEC/EEC/VOC from the Department of Library and Information Science

Paper Code	Course Type	Nomenclature of Course	Credits	Internal Marks	External Marks	Marks	Duration of Exam in Hours
U25SEC420P	SEC	Working with Library Management Software-Koha	2	15	35	50	2

SESSION 2026-27

Syllabus
(NEP-2020)

MASTER OF LIBRARY AND INFORMATION SCIENCE
(M. Lib. I. Sc.)

2-Year Integrated

SEMESTER - III

U25LIS301T: **Information Storage and Retrieval** **DSC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course Outcomes: After completing this course, students shall be able to:

CO1: Distinguish between the different types of indexing systems and their techniques;
CO2: Understand and use the different vocabulary control devices in information retrieval;
CO3: Conduct search using various search techniques; and
CO4: Understand and evaluate the information retrieval systems

Note for the Paper Setter

The paper is divided into **4** Units. The examinees will be required to attempt **Five** questions in all, including Question 1, which is compulsory and selecting **One** question from each Unit (I – IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set **Two** questions from each Unit.

Unit- 1: Indexing Systems and Techniques

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

Unit- 2: Vocabulary Control

- Vocabulary Control: Need, Purpose, Functions, Types and Characteristics.
- Vocabulary Control Tools.
- Subject Headings: LCSH, SLSH and MeSH.
- Thesaurus: Features, Structure and Construction, ERIC, UNESCO Thesaurus. Taxonomies.

Unit- 3: Information Searching and Media

- Search Methods and Search Strategy: Boolean Search, Heuristic Search, Proximity Search, Phrase Search, Truncation Search, etc.
- Information Searching in Different Media: Print and Electronic.
- Federated Search: Concept and Features.
- Web-Scale Discovery System: Concept and Features.
- Data Mining and Text Mining.

Unit- 4: **Information Retrieval System**

- Information Retrieval System (IRS): Concept, Definition, Types, Characteristics Components of IRS. Information Retrieval Models.
- Library Information Retrieval Systems.
- Evaluation of Information Retrieval Systems

Recommended Readings

1. Atchison, Jean and Gilchris, Alan (1972). *Thesaurus Construction: A Practical Manual*. London: ASLIB.
2. Chowdhary, GG, (2003) *Introduction to Modern Information Retrieval*. 2nd Ed. London: Facet Publishing,.
3. Gopinath, M.A. (1986). *Construction of Depth Version of Classification: A Manual*. New Delhi. Wiley Eastern Limited.
4. Harter, Stephen P. (1978). *Online Information Retrieval: Concept, Principles and Techniques*. Orlando, Academic Press, 1978.
5. Hepas,ITS, (1978). *Information Retrieval: Computational and Theoretical Aspects*. New York, Academic Press.
6. Houghton, Bernard and Convey, John. (1984). *Online Information Retrieval Systems: An Introductory Manual to Principles and Practices.* 2nd Ed. London Clive Bingley.
7. Houghton, Bernad (1968) Ed. *Computer Based Information Retrieval Systems*. London, Clive Bingley.
8. Lancaster, F. Wilfrid (1979). *Information Retrieval Systems: Characteristics, Testing and Evaluation*. 2nd Ed. New York: Wiley.
9. Ranganathan S R (1967). *Prolegomena to Library Classification* V1, Bangalore, Sarda Ranganathan Endowment for Library Science,. Page 14 of 21
10. Rowley, Jennifer E (1997). *Abstracting and Indexing*. Aldorshot: Gower.
11. Salton G. (1968). *Automatic Information Organisation and Retrieval*.
12. Vickery B C (1970). *Techniques of Information Retrieval*. London: Butterworths.

U25LIS302T: **Collection Development and E-Resource Management** **DSC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course outcomes (COs) At the end the students will able to know:

CO1: the methods of materials acquisitions, covering various formats;
CO2: the issues surrounding collection development, including budgeting, policies, user communities, and collection management;
CO3: the real-life situations to tackle those collections development situations in workplace.
CO4: the meaning, definition and types of electronic resources;
CO5: about collection development of e-resources;
CO6: the activities involved in developing collection and providing access to electronic resources.

Note for the Paper Setter

The paper is divided into **4** Units. The examinees will be required to attempt ***Five*** questions in all, including Question 1, which is compulsory and selecting ***One*** question from each Unit (I – IV). Question 1 will consist of **7** short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set ***Two*** questions from each Unit.

Unit 1: Electronic Resources

- Electronic resources: concept, need, characteristics, benefits and drawbacks
- E-Resource life cycle, Types of e-resources, Electronic publishing

Unit 2: Collection Development

- Collection building process: formulating policy, budgeting, evaluation of e-resources, pricing, licensing, ordering and receiving
- Model licenses and guidelines, Negotiation: concept and need
- Consortia: concept, need, purpose & limitations
- National consortia: eShodhsindhu

Unit 3: Access Management

- Access management of e-resources
- Authentication and Authorization
- Access channels, Preventing misuse, e-resource publicity
- Preservation of e-resources, User training and awareness

Unit 4: Usage Statistics and ERMS

- Usage statistics of e-resources
- Standards and guidelines (COUNTER, SUSHI)
- ERMS: concept, need, features, Salient features of some ERMS (ExLibris Verde)

Suggested Readings

1. Alabaster, Carol. (2002). *Developing an outstanding core Collection: A guide for libraries*. Chicago: American Library Association.
2. Cassell, M. K., & Greene, G.W. (1991). *Collection development in the small library: Small libraries Publications, no. 17*. Chicago: American Library Association.
3. Cole, Jim et el. (2003). *E_- serials Collection Management : Transition , Trends and Technicalities.* London: CRC Press.
4. Bonk, W. J., & Magrill,R.M. (1979). *Building library collections* (5th ed.). Metuchen, NJ: The Scarecrow Press.
5. Conger, Joan E. (2004). *Collaborative electronic resource management: From acquisitions to Assessment.* Westport: Libraries Unlimited
6. Curtis, Donnelyn. (2005). *E-journals: How to do it Manual for Building, Managing and Supporting Electronic Journal Collection*. London: Facet Publishing
7. Evans, G. E. (1995). *Developing library and information center collections,* (3rd ed.): Library Science Text Series. Englewood, CO: Libraries Unlimited.
8. Fecko, Mary Beth.(1997). *Electronic Resources : access and issues*. London: Bowker-Saur.
9. Gabriel, M. R. (1995). *Collection Development and Collection Evaluation: A sourcebook.* Metuchen, NJ: The Scarecrow Press.
10. Hanson, Ardis & Levin, B.L. (2002). *Building a virtual library*. Hershey, P.A. Information Science Publishing.
11. Jones, Wayne, ed. (2009). *E-Journal Access and Management*. New York: Routledge.
12. Katz , Linda S. (2003). *Collection Development Policies: new dimension for Changing Collections*. London: Roultedge Kegan Paul.
13. Katz , Linda S. (2005). *Managing Digital Resources in Libraries* . London : Roultedge Kegan Paul.
14. Lee, Staurt D. & Boyle, Frances. (2004). *Building and Electronic Resource Collection: A Practical Guide* (2 nd ed.). London: Facet Publishing.
15. Lee, Sul H. (2003). *Electronic Resources and Collection development* . London: Roultedge , Kegan Paul.
16. Mitchell, Anne M & Surrat, Brain E. (2005). *Cataloguing and Organizing Digital Resources: A How to do it Manual for Librarians.* London: Facet Publishing.
17. Yu, Holly & Breivold, scott (2008). *Electronic Resource management in Libraries: Research and Practice* . Information Science References .

U25LIS303T: **Information Resources in Social Sciences** **DSC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs**

Course Outcomes: After completing this course, students shall be able to:

CO1: Understand the structure and development of different disciplines of Social Sciences;
CO2: Critically analyse the various information sources in Social Sciences;
CO3: Assess the functions of social science information institutions; and
CO4: Evaluate the information systems and networks in Social Sciences

Note for the Paper Setter

The paper is divided into **4** Units. The examinees will be required to attempt **Five** questions in all, including Question 1, which is compulsory and selecting **One** question from each Unit (I – IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set **Two** questions from each Unit.

Unit 1: Structure and Development of Social Sciences:

- Growth and Development of Social Sciences.
- Definition, Scope, Landmarks and Research Trends in the Disciplines of: Political Science, Economics, History, Sociology and Psychology.
- Study the contributions of Eminent Social Scientists- Socrates, Plato, Aristotle, Karl Marx, Jean-Jacques Rousseau, Adam Smith, Alfred Marshall, John Maynard Keynes, Auguste Comte, and Herodotus

Unit 2: Social Sciences Information Sources

- Social Science (print) Literature- Format, Popular and Scholarly Literature, Derived and Bibliographical Literature.
- Web-based Information Sources: E-journals, Databases- Bibliographic and Full-text Subject Gateways, Institutional Repositories, Digital Libraries.
- Evaluation of: International Encyclopaedia of Social and Behavioural Sciences, International Bibliography of the Social Sciences, EconLit, PsycINFO, Indian Citation Index, ProQuest, Web of Science, Scopus, JSTOR

Unit 3: Social Sciences Information Institutions

- Institution connected with Social Science Information Generation to Dissemination.
- Study of the activities of: ICSSR, ICWA, National Council for Applied Economic Research, TISS, ICHR, United Nations- ECOSOC, UNESCO.

Unit 4: Documentation Centres and Networks

- Planning of Social Science Research Libraries.
- Study of existing Documentation Centres, Information Systems and Networks in Social Sciences at National and International level
- INFLIBNET, DELNET, DEVSIS, NASSDOC, SENDOC, DEVINSA, APINESS, Social Science Research Network (SSRN).

Recommended Readings

(List of suggested readings to be provided by concerned faculty)

U25LIS304T: **Advanced Information and Communication Technologies (ICTs): Theory** **DSC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course outcomes (COs):

At the end students will able to know:

CO1: the understanding about implementation of library automation software and in achieving library security with the use of latest ICTs technique;

CO2: the use of communication and networking technologies;

CO3: the knowledge about database management, data ware housing, data mining and other artificial intelligence technologies.

Note The paper is divided into **4** Units. The examinees will be required to attempt ***Five*** questions in all, including Question 1, which is compulsory, and selecting ***One*** question from each Unit (I – IV). Question 1 will consist of **7** short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set ***Two*** questions from each Unit.

Unit 1: Library Automation

- Planning, implementation and evaluation of library automation
- Automation of in-house operations: acquisition, cataloguing, circulation, serials control system, OPAC and its features, library management
- Library automation software: proprietary (LIBSYS), Open source (KOHA)
- Library security technology: RFID, CCTV, biometrics

Unit 2: Database Management

- Database: concept, need and types
- DBMS: concept & features
- RDBMS: concept, definition, features and need
- Database design, development, evaluation, query language
- Database architecture and models

Unit 3: Data Communication Technology

- Data communication: concept, definition
- Internet connectivity: dialup, leased line, ISDN, wireless
- Protocols and standards: TCP/IP, FTP, HTTP, OSI
- Web servers and Internet security
- Use of social networking tools for library services: RSS, Podcasting, Blogs

Unit 4: Artificial Intelligence

- Artificial intelligence: concept, definition and features
- Expert systems: concept, definition and features
- Data warehousing -Data mining

Suggested Readings

1. Ackermann, Ernest. (1995). *Learning to use the Internet: An introduction with examples and experiences.* New Delhi: BPB.
2. Chellis, James, Perkins, Charles & Strebe, Mathew (1997). *MCSE: Networking essential study guide*. New Delhi: BPB.
3. Chowdhury, G. G. & Chowdhury, Sudatta (2007). *Organizing information: From the shelf to the Web*. London: Facet.
4. Chowdhury, G. G. & Chowdhury, Sudatta. (2000) *Searching CD-ROM and online information sources*. London: Library Association.
5. Cooke, Alison. (2008). *A guide to finding quality information on the Internet: Selection and evaluation strategies*. 2nd ed. London: Facet.
6. Cooper, Michael D. (1996). *Design of library automation systems: File structures, data structures and tools*. New York: John Wiley.
7. Haravu, L. J. (2004). *Library automation design: Principles and practice*. New Delhi: Allied.
8. Falk, Bennett. (1995). *The Internet basic reference from A to Z*. Singapore: Tech. Pub.
9. Forouzan, Behrouz A, Coombs, Catherine & Fegan, Sophia Chung. (2000). *Data communication and networking* (2nd ed). New Delhi: Tata McGraw-Hill.
10. Kashyap, M. M. (1993). *Database system: Design and development*. New Delhi: Sterling.
11. Leon, Alexis & Leon, Mathews. (1993). *Fundamentals of IT*. Chennai: Leon TechWorld.
12. Panda, K. C. & Gautam, J. N. (1999). *Information technology on the cross road: From abacus to internet.* Agra: Y. K.
13. Pandian, M. Paul & Jambhekar, Ashok. (2001). *Internet for libraries and information centres*. New Delhi: Tata-McGraw Hill.
14. Patterson, Dan W. (2000). *Introduction to artificial intelligence and expert systems*. New Delhi: Prentice-Hall of India.

U25LIS311T: **Information, Communication and Society** **DEC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course outcomes (COs): At the end students will able to know:

CO1: about the information and related concept;

CO2: how freedom of information prevails in an advanced society to uphold a democracy;

CO3: about information science as a discipline;

CO4: about different acts, commissions and policies related to information activities in India.

Note for the Paper Setter

The paper is divided into **4** Units. The examinees will be required to attempt ***Five*** questions in all, including Question 1, which is compulsory and selecting ***One*** question from each Unit (I – IV). Question 1 will consist of **7** short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set ***Two*** questions from each Unit.

Unit 1: Information and Communication

- Information: definition, characteristics, nature, type, value and use
- Conceptual difference between data, information and knowledge
- Communication of information
- Communication channels, models and barriers

Unit 2: Information Science and Information Society

- Information science: definition, scope and objectives
- Information science as a discipline and its relationship with other subjects
- Information society: definition, genesis, characteristics and implications
- Changing role of library and information centers in society
- Information industry: generators, providers and intermediaries
- Knowledge society: definition, genesis, characteristics & implications

Unit 3: Information Society

- Freedom : Freedom of information- concept, censorship, cyber law, data security and fair use policies in relation to information, right to read and write: banning books.
- Organization: WIPO
- Policies: International and National Programs and Policies (NAPLIS)
- Commission: National Knowledge Commission (NKC)
- Typology of the Information sector.

Unit 4: Economics of Information and Its Management

- Information as power
- Information as an economic resource
- Information as a commodity
- Information economics
- Marketing of information product and services
- Information/knowledge management: concept and tools

Suggested Readings

1. Feather, John (2008). *The information society: A study of continuity and change*. 5th ed. London: Facet.

2. Martin, William J. (1988). *The information society*. London: ASLIB.

3. Raja Rammohan Roy Library Foundation and Indian Library Association (1985). *Documents of national policy on library and information system.* Calcutta: The Foundation.

4. Rao, Madan Mohan (2003). *Leading with knowledge: Knowledge management practices in global infotech companies*. New Delhi: McGraw-Hill.

5. Sharma, Pandey S. K., ed. (2003). *Electronic information environment and library services*. New Delhi: Indian Library Association.

6. Vickery, Brian C. & Vickery, Alina (1987). *Information science in theory and practice*. London: Butterworths.

U25LIS312T **Information Communication and Policies** **DEC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Objectives

CO1: To introduce students to the Information and Related concepts.
CO2: To make the students aware about Freedom of Information Prevails.
CO3: To introduce students to Information Science as Discipline.
CO4: To introduce students to Commissions and Policies related to Information.

Course Outcomes:

CO1: about the information and related concept.

CO2: how freedom of information prevails in an advanced society to uphold a democracy.

CO3: about information science as a discipline.

CO4: about different acts, commissions and policies related to information activities in India.

Note for the Paper Setter

The paper is divided into 4 Units. The examinees well be required to attempt Five questions in all, including Question 1, which is compulsory and selecting One question from each Unit (I-IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set Two questions from each Unit.

Unit 1: Information and Communication

- Information: definition, need, characteristics, nature, type, value and use.
- Conceptual difference between data, information and knowledge.
- Communication of information.
- Communication channels, types, models and barriers.

Unit 2: Information Science and Information Society

- Information science: definition, scope and objectives.
- Information science as a discipline and its relationship with other subjects.
- Information society: definition, genesis, characteristics and implications.
- Changing role of library and information centres in society.
- Information industry: generators, providers and intermediaries.
- Knowledge society: definition, genesis, characteristics & implications.

Unit 3: Laws/Acts and Policies

- Freedom: Freedom of information- concept, censorship, cyber law, data security and fair use policies in relation to information, right to read and write: (un)banning books, fatwa on writers Acts: IPRs, Right to Information Act 2005, IT Act 2000.
- Organization: WIPO.
- Policies: International and National Programmes and Policies (NAPLIS).
- Commission: National Knowledge Commission (NKC).

Unit 4: Economics of Information and Its Management

- Information is power.
- Information as an economic resource.

- Information as a commodity.
- Information economics.
- Marketing of information product and services.
- Information/knowledge management: concept and tools.

Suggested Readings

1. Eather, John (2008). *The information society: A study of continuity and change*. 5th ed. London: Facet.Martin, William J. (1988). The information society. London: Aslib.
2. Raja Rammohan Roy Library Foundation and Indian Library Asso.ciation (1985). *Documents of national policy on library and information system*. Calcutta: The Foundation.
3. Ranganathan, S. R. (1966). *Teaching library science. Library Science with a Slant to Documentation,* 3 pp. 293-388.
4. Rao, Madan Mohan (2003). *Leading with knowledge: Knowledge management practices in global infotech companies*. New Delhi: McGraw-Hill.
5. Sharma, Pandey S. K., ed. (2003). *Electronic information environment and library services*. New Delhi: Indian Library Association.
6. Vickery, Brian C. & Vickery, Alina (1987). *Information science in theory and practice*. London: Butterworths.

To be opted from pool of OEC (Other Department)	**Total Credit: 2** **Total Marks: 50** **Max. Marks ET Theory: 35** **Max. Marks IA Theory: 15** **Duration of Theory Exam: 2 Hrs.**

SESSION 2026-27

Syllabus

(NEP-2020)

MASTER OF LIBRARY AND INFORMATION SCIENCE

(M. Lib. I. Sc.)

(Option A)

2-Year Integrated

SEMESTER - IV

U25LIS401T: **Research Methods and Statistical Techniques** **DSC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs**

Course outcomes (COs)

At the end students will able to know:

CO1: the different methods and techniques of research;
CO2: the use of data collection tools, organization and representation of data;
CO3: different data analysis techniques;
CO4: about how to prepare research report

Note for the Paper Setter

The paper is divided into **4** Units. The examinees will be required to attempt ***Five*** questions in all, including Question 1, which is compulsory and selecting ***One*** question from each Unit (I – IV). Question 1 will consist of **7** short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set ***Two*** questions from each Unit.

UNIT 1: RESEARCH BASICS

- Research: definition, concept, objectives, types
- Scientific enquiry and scientific method: validity, reliability, objectivity and subjectivity
- Research problem: theoretical and applied; research problem identification.
- Literature search and review: purpose, objectives and style
- Research Proposal: how to write an effective research proposal
- Current trends in LIS research

UNIT 2: RESEARCH DESIGN

- Research design: concept, need and purpose
- Research approach: qualitative- narrative, phenomenology, ethnography, discourse;
- quantitative-experimental and non-experimental (survey, historical, descriptive)
- Identification and formulation of problem
- Research objectives, questions and hypotheses: meaning, concept types and narrating
- style

UNIT 3: RESEARCH TOOLS AND TECHNIQUES

- Data world: population and sample - concept, meaning and sampling techniques
- Data collection methods: questionnaire, schedule, interview, observation
- Library records and reports

UNIT 4: DATA ANALYSIS, INTERPRETATION & REPORTING

- Data processing- analysis, interpretation, presentation: concept, need and purpose
- Descriptive statistics and inferential statistic
- Measures of central tendency: mean, median, mode
- Dispersion, correlations, linear Regression, standard deviation- non-parametric & parametric (chi-square test, t-test)
- SPSS and Web-based statistical analysis tools: basics

- Research report writing

Recommended Readings :

1. Charles, Busha H. and Harter, Stephen P. (1980). *Research methods in librarianship: Techniques and interpretations*. USA: Academic Press.
2. Fowler, Floyd J. (2001). *Survey research methods*. 3 rd ed. California: Sage.
3. John W. Creswell (2013). *Research design: Qualitative, quantitative, and mixed methods approach*. 4th ed . New Delhi: Sage.
4. Kothari, C. R. (2004). *Research methodology: Methods and techniques*. 2nd rev ed. New Delhi: New Age .
5. Krishan Kumar (1992). *Research methods in library and information Science*. New Delhi: Vikas.
6. Powell, Ronald R. & Connaway, Lynn Silipigni (2010). *Basic research methods for librarians. 5th ed*. New York: Libraries Unlimited.
7. Rao, I. K. Ravichandra (1983). *Quantitative methods in library and information science*. New Delhi: Wiley Eastern.
8. Young, P. V. (1982). *Scientific social survey and research*. New Delhi. Prentice Hall.
9. Menter, Ian et al (2011). *A guide to practitioner research in education*. Los Angeles: Sage.

U25LIS402T: **Informetrics and Scientometrics** **DSC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs**

Course outcomes (COs)

At the end students will:

CO1: Become familiar with the fundamentals of Bibliometrics, Scientometrics, Informetrics and Webometrics

CO2: Know about the basic bibliometric laws and their applications in the present time

CO3: Know about various data sources including citation indexes, like Web of Science, SCOPUS, Google Scholar and search and retrieve useful information for conducting studies

CO4: Understand the indicators of the publication productivity- country-wise, institution wise, subject/theme wise, journal wise and author wise.

CO5: Use of tools and software for scientometric analysis

Note for the Paper Setter

The paper is divided into 4 units. The candidates are required to attempt 5 questions in all, selecting 1 question from each unit, out of two internal choices. Question 1 is compulsory consisting of 8 short answer type questions, spread over the whole syllabus. All questions carry equal marks.

UNIT I: INTRODUCTION TO BIBLIOMETRICS, SCIENTOMETRICS, AND INFORMETRICS AND RELATED LAWS

- Concept and Definition of Librametrics, Bibliometrics, Scientometrics, Informetrics, Webometrics and Altmetrics.
- Theoretical foundation of Bibliometrics and Scientometrics; Limitations of Bibliometrics, Scientometrics, Informetrics and Webometrics
- Classical laws of Bibliometrics - Broadford's Law, Zipf s Law, Lotka's Law.

UNIT II: EVALUATIVE BIBLIOMETRICS

- Historical Perspectives of Evaluative Bibliometrics
- Publication productivity dynamics - Journal level, Institutional level, regional level, National level, Global level, Discipline level publication
- Research Collaboration Dynamics-Individual, Institution, Regional, National and Global level.

UNIT III: BIBLIOMETRICS/ SCIENTOMETRICS INDICATORS AND EMERGING TRENDS

- Bibliometric data sources: Scopus, Web of Science, Google Scholar; Crossref; Microsoft academic Bibliometric Data Collection: Citation coUNITng methods.
- Journal citation measures - Journal impact factor, Journal Citation Indicator, Immediacy index, CiteScore, SNIP, Weighted Impact -Eigenfactor, SJR; Half-life; Normalized Impact Indicators
- Individual Impact measures-H-Index, g-index, etc; Co-Citation Analysis, Bibliographic coupling.

UNIT IV: ADVANCED LEARNING IN BIBLIOMETRICS/ SCIENTOMETRICS

- Scientometrics Analysis Tools- R Software -Bibliometrix, Publish or Perish, Bibexcel, etc.;
- Network Visualization Software – Vosviewer; Pajek, Sci2Tools, CiteSpace, etc
- Altmetrics and Webometric data source and Analysis
- Responsible Research Metrics – DORA declaration, Leiden Manifesto, etc.

Recommended Readings

1. Bornmann, L., & Daniel, H. D. (2008). *What do citation counts measure? a review of studies on citing behavior*. Journal of Documentation, 64(1), 45 – 80.
2. Cronin, B. & Sugimoto, C. (Eds). (2014) *Beyond Bibliometrics : Harnessing Multidimensional Indicators of Scholarly Impact*. Massaschussets, MIT Press
3. Cronin, B. (1984). *The citation process: the role and significance of citations in scientific communication: Taylor Graham.*
4. Cronin, B., & Atkins, H.B. (Eds.). (2000). *The Web of Knowledge: A Festschrift in Honor of Eugene Garfield: Information Today Inc*.
5. De Bellis, N. (2009). *Bibliometrics and Citation Analysis: From the Science Citation Index to Cybermetrics*. Lanham: Scarecrow Press.
6. Egghe, L. (2005). *Power Laws in the Information Production Process: LotkaianInformetrics: Emerald Group Publishing Limited*.
7. Glänzel, W., Moed, H.F., Schmoch, U., Thelwall, M. (Eds.) (2019) *Springer Handbook of Science and Technology Indicators*. Cham, Switzerland: Springer Nature
8. Haustein, S. (2012). *Multidimensional journal evaluation: Analyzing scientific periodicals beyond the Impact Factor*. Berlin : De Gruyter.
9. Moed, H. F. (2005). *Citation analysis in research evaluation*. Dordrecht,:Springer
10. .Sugimoto, C. R. (Ed.)(2016), *Theories of Informetrics and Scholarly Communication: A festschrift in honor of Blaise Cronin*
11. Thelwall, M. (2016). *Web indicators for research evaluation: A practical guide. Synthesis Lectures on Information Concepts, Retrieval, and Services*. San Rafael, CA: Morgan & Claypool Publishers.
12. Vinkler, P. (2010). *The Evaluation of Research by Scientometric Indicators*. Oxford: Chandos
13. Waltman, L. (2016). *A review of the literature on citation impact indicators*. Journal of Informetrics, 10(2), 365–391. https://doi.org/10.1016/j.joi.2016.02.007.
14. Wilsdon, J. (2016), *Towards Metric Tide: Independent Review of the Role of Metrics in Research Assessment and Management*, Sage publication/ HEFCE, UK

U25LIS403T: **Library and Information Centre Management** **DSC**	**Total Credit: 4** **Total Marks:100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course Outcomes: After completing this course, students shall be able to:

CO1: Understand the basic concepts related to library management;

CO2: Understand the essential aspects of human resource management;

CO3: Know the sources of finance and budgeting techniques as well as quality management concepts and tools; and

Note for the Paper Setter

The paper is divided into **4** Units. The examinees will be required to attempt **Five** questions in all, including Question 1, which is compulsory and selecting **One** question from each Unit (I – IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set **Two** questions from each Unit.

UNIT 1: LIBRARY MANAGEMENT

- Principles of Management: Scientific Principles & Administrative Principles
- Application of Management Principles in Libraries
- Project Management: PERT, CPM,
- Performance parameters; Measurement,
- Time and Motion Study, SWOT.
- Reporting: Types of reports: Annual Report-compilation, contents and style, Library statistics

UNIT 2: HUMAN RESOURCE MANAGEMENT

- Human Resource Management: Concept and Importance
- Human Resource Planning: Estimating Manpower Requirements
- Methods of Manpower Planning Job Analysis, Job description, Recruitment, Selection, Induction & Deployment
- Human Resource Development: Performance Appraisal, Training & Development

UNIT 3: FINANCIAL MANAGEMENT AND TQM

- Principles of Financial Management
- Financial Management in Service-Oriented and Not-for-Profit Organisations,
- Sources of Funds in Academic Libraries, Public Libraries and Special Libraries.
- Budgeting: Concept, Types of budgets: Line, ZBB, PPBS
- Library planning: Types of Plans, Factors and Techniques of Library Planning.
- Financial Estimation -Per Capita Method, Proportional Method, Method of Details
- Library Expenditure Planning, Importance of Library Expenditure, Nature of Library Expenditure, Principles of Library Expenditure, Classification of Library Expenditure

UNIT 4: ASSESSMENT, MANAGEMENT AND MARKETING OF LIBRARY SERVICES

- Identification of markets for libraries, Information as a marketable commodity,
- Marketing of Library Services and Products,
- Promotion techniques including use of electronic media, public relations,
- Best and Innovative Practices, Extension Services, Outreach Services.

- Library Service Quality Models- TQM, Servqual, Libqual+ and SQIP,
- Quality Audit,

Recommended Readings

1. Evans, G. Edward, Ward, Patricia Layzell, & Rugaas, Bendik (2000). *Management basics for information professionals*. New York, Neal-Schuman
2. Krishan Kumar. (2007). *Library management in electronic environment*. New Delhi: Har- Anand.
3. Mittal, R. L. (2007). *Library administration: Theory and practice*. 5 ed. New Delhi: Ess Ess.
4. Panwar, B. S. & Vyas, S. D. (1986). *Library management*. Delhi: R. R. Publishing.
5. Ranganathan, S. R. (2006). Library administration. 2nd ed. New Delhi: Ess Ess.
6. Singh, M. (1983). Library and information management: Theory and practice. Delhi: IBT. Singh, R. S. P. (1990). Fundamentals of library administration and management. Delhi: Prabhat Publications.
7. Stueart R. D. & Moran, B. B. (2013). Libraries and information center management. 8th ed. London: Libraries Unlimited.
8. Abdul Majeed, K.C and Bavakutty, M. (2005) *Methods for measuring quality of libraries,* New Delhi: Ess Ess
9. Hernon, Peter and Altman Ellen. (1998). *Assessing Service Quality : Satisfying the Expectations of Library Customers* Chicago : American Library Association.
10. Sahu, Ashok Kumar. (2007). "Measuring service quality in an academic library: an Indian case study" Library Review, 56 (3), p. 234-243.
11. Verma, R. K. (2002). "Measuring quality management level with reference to ISO 9000 and TQM for special libraries in India", Annals of Library Science and Information Studies, 49 (4), p. 141-163.

U25LIS404P: **Advanced Information and Communication Technologies (Practice)** **DSC (Practicum)**	**Total Credit: 4** **Total Marks: 100** **Max. Marks EP Practice: 70** **Max. Marks IA Practice: 30** **Duration of Practical Exam: 3 Hrs**

Course outcomes (COs)

At the end students will able to know:

CO1: to understand the practical aspects in designing and developing library database,

CO2: to develop library website and blog;

CO3: to have hand-on training on library automation software and data migration from one system to another system.

Note for the Paper Setter

The paper is divided into 4 units. The Examiner will set ***Two*** questions from each Unit. The candidates are required to attempt 5 questions in all by selecting at least one question from each unit. All questions carry equal marks

Unit 1: Library Management Software

- Library management software- KOHA

Unit 2: Use of Internet

- Designing and developing library blog

Unit 3: Digital Library Practice

- Hands on practice of scanner, digital camera and OCR
- Hands on practice of DL creation using Greenstone

Unit 4: Website Designing and Navigational Tools

- Designing library websites (HTML/Dreamweaver, etc.)
- Image creation/editing using Paint/Photoshop/Office Picture Management Tools, etc.

Recommended Readings

1. Ackermann, Ernest. (1995). *Learning to Use the Internet: An Introduction with Examples and Experiences*. New Delhi: BPB.
2. Bradley, Phil. (2004). *Advanced Internet Searcher's Handbook*. Facet Publishing.
3. Chowdhury, G. G. and Chowdhury, Sudatta. (2000). *Searching CD-ROM and Online Information Sources.* London: Library Association.
4. Falk, Bennett. (1995). *The Internet Basic Reference from A to Z.* Singapore: Tech. Pub.
5. McCoy, John. (1996). *Mastering Web Design*. New Delhi: BPB.
6. Neelameghan, A. & Lalitha, S. K. (2001). *Tutor+: A Learning and Teaching Package on Hypertext Link Commands in WINISIS*. Bangalore: Sarada Ranganathan Endowment for Library Science.
7. Negus, Christopher. (2005). *Linux Bible*. New York: John Wiley.
8. Simpson, Alan. (2004). *Windows XP Bible*. New York: John Wiley, 2004.
9. Walkenbach, John, et al. (2007). *Office 2007 Bible*. New York: John Wiley.
10. Winship, Ian & Mcnab, Alison. (2000). *Student's Guide to the Internet*. London: Library Association

U25LIS411T **Digital Library** **DEC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course Outcomes:

CO1: to provide basic concepts related to digital library system.

CO2: to provide basic concepts related to digital resources system.

CO3: to provide hands on experience in creation of digital libraries.

CO4: to know the concept of institutional repositories and their usages in library and institutional settings.

Note for the Paper Setter

The paper is divided into 4 Units. The examinees well be required to attempt Five questions in all, including Question 1, which is compulsory and selecting One question from each Unit (I-IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set Two questions from each Unit.

Unit 1: Digital Library

- Digital libraries: Definition, Objectives, Scope of Digital libraries
- Digital Resources: Nature, Characteristics and types
- Digital library initiatives: National and International
- Design and development of digital library: planning, design, implementation, evaluation and management

Unit 2: Digital Library Creation

- DL software: DSpace
- DL hardware: input capture devices: scanners, digital cameras
- Digitization: concept, need, methods and process
- Compression: types and methods

Unit 3: Institutional Repository

- Institutional repository: concept, definition, need, objectives and characteristics
- Design and development of IR
- IR initiatives: national and international

Unit 4: Content Management System

- Content Management System (CMS): Concept, Definition and Scope
- CMS Tools • Features and functionalities of its stakeholders
- Evaluation and selection criteria for CMS

Suggested Readings

1. Alemu, G., Stevens, B. (2015). *An Emergent Theory of Digital Library Metadata: Enrich Then Filter*. Netherlands: Elsevier Science.
2. Blaney, J., Milligan, S., Steer, M., & Winters, J. (2021). *Doing digital history: A Syllabi beginner's guide to working with text as data*. Manchester University Press.
3. Evans, W. & David B. (2013). *A Handbook of Digital Library Economics: Operations*
4. Hughes, L. M. (2004). *Digitizing Collections: strategic issues for the information manager*. New York: Neal Schuman.
5. Lawson, N. (2018). *Digital Library Preservation Strategies*. United Kingdom: EDTECH.
6. Pedley, P. (2009*). Digital Copyright*. 2nd ed. London: Facet Publishing
7. Pomerantz, J. (2015). *Metadata*. Massachusetts: MIT Press.
8. Purcell, A. D. (2016). *Digital library programs for libraries and archives: Developing, managing, and sustaining unique digital collections*. Massachusetts: MIT Press.

U25LIS412T **Database and Metrics Practice** **DEC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course Outcomes:

CO1: Execute advanced database searches for relevant information.

CO2: Analyze research metrics to assess scholarly impact.

CO3: Establish professional research profiles for networking.

CO4: Create and manage digital libraries for accessibility and preservation.

Note for the Paper Setter

The paper is divided into 4 Units. The examinees well be required to attempt Five questions in all, including Question 1, which is compulsory and selecting One question from each Unit (I-IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set Two questions from each Unit.

Unit 1: Library Database Search

- Full-text databases: Science Direct, Emerald, etc.
- Citation databases: Scopus, Web of Science, etc.
- Other databases: Dimensions, Google Scholar, etc.
- Repositories: ROAR, DOAR, SHERPA/ Romeo, etc.
- Catalogues: OPAC, Web-OPAC, World-Cat, etc.

Unit 2: Research Metrics

- Impact Factor, Eigen-factor, Cite-score, etc.: Meaning and calculation.
- Finding research metrics from databases: citations, h-index, g-index, i10 index, IF, SJR, SNIP, FWCI, etc.
- Altmetrics, Altmetrics Attention Score.

Unit 3: Research Profiles and Blogs

- Creating profiles on Research Gate, Academia.edu, Google Scholar, Scopus, etc.
- Creation of ORCID.
- Journal Finder Tools.
- Designing and developing library blog.

Unit 4: Creating Digital Repositories

- Hands on practice of scanner, digital camera and OCR.
- Hands on practice of Digital Library creation using Greenstone/ DSpace.

Suggested Readings

1. Das, A. K. (2015). *Research evaluation metrics* (Vol. 4). UNESCO Publishing.
2. Morrison, A. (2013). *Blogs and blogging: Text and practice*. A companion to digital literary studies, 369-387.
3. Richardson, W. W. H. (2010). *Blogs, Wikis, Podcasts, and other Powerful Web Tools for Classrooms*. Thousand Oaks: SAGE Publications
4. Williams, K. (2022). *What counts: Making sense of metrics of research value. Science and Public Policy*, 49(3), 518-531.
5. Witten, I. H., & Bainbridge, D. (2005, June). *Building digital library collections with Greenstone*. In JCDL (Vol. 5, pp. 425-425).

U25SEC420P **Working with Library Management Software- Koha** **SEC**	**Total Credit: 2** **Total Marks: 50** **Max. Marks ET Theory: 35** **Max. Marks IA Theory: 15** **Duration of Theory Exam: 2 Hrs.**

Objectives

- To introduce students to the fundamentals of Library Software.
- To make the students aware about Operations of koha.
- To introduce students about Acquisition and Serials Control.
- To introduce students to Backup of Koha.

Course Outcomes:

CO1: to provide basic concepts related to installation of Koha.

CO2: to provide basic concepts related to operations.

CO3: to provide hands on experience on acquisition and serials control.

CO4: to know the concept of reporting and backup of every modules of Koha.

Note for the Paper Setter

The paper is divided into 2 Units. The Examiner will set the paper of 20 marks from unit 1 and 15 marks from unit 2.

Unit 1: Introduction and Installation of Koha **Marks: 20**

- Circulation Management, Patron/User Management, Adding and maintaining patron records, Patron categories and privileges, Notifications & communication with users

- Acquisitions –Checking duplicate selection, Creating Vendors Profiles, Creating purchase orders, Receiving material and accessioning, Budget management,

Unit 2: Serials Control Creating Vendor Profiles **Marks: 15**

-Subscription management for serials- **receiving invoice and making payments,** receiving Journals and reporting for non-receipt Journals
- Reporting and Backup, generating standard reports (circulation, catalog, users), Customize reports and statistical reports
- System backups, import/export routines and maintenance tasks

Suggested Readings

1. ***Koha Manual*** **(Latest Version).**
2. ***Koha Community Documentation*** **(24.05/25.05)**
3. ***Unleashing Koha: The Complete Library Solution***
4. ***Koha 3 Library Management System (O'Reilly)***

SESSION 2026-27

Syllabus

(NEP-2020)

MASTER OF LIBRARY AND INFORMATION SCIENCE

(M. Lib. I. Sc.)

(Option B)

2-Year Integrated

SEMESTER - IV

U25LIS401T: **Research Methods and Statistical Techniques** **DSC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs**

Course outcomes (COs)

At the end students will able to know:

CO1: the different methods and techniques of research;
CO2: the use of data collection tools, organization and representation of data;
CO3: different data analysis techniques;
CO4: about how to prepare research report

Note for the Paper Setter

The paper is divided into **4** Units. The examinees will be required to attempt ***Five*** questions in all, including Question 1, which is compulsory and selecting ***One*** question from each Unit (I – IV). Question 1 will consist of **7** short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set ***Two*** questions from each Unit.

UNIT 1: RESEARCH BASICS

- Research: definition, concept, objectives, types
- Scientific enquiry and scientific method: validity, reliability, objectivity and subjectivity
- Research problem: theoretical and applied; research problem identification.
- Literature search and review: purpose, objectives and style
- Research Proposal: how to write an effective research proposal
- Current trends in LIS research

UNIT 2: RESEARCH DESIGN

- Research design: concept, need and purpose
- Research approach: qualitative- narrative, phenomenology, ethnography, discourse;
- quantitative-experimental and non-experimental (survey, historical, descriptive)
- Identification and formulation of problem
- Research objectives, questions and hypotheses: meaning, concept types and narrating
- style

UNIT 3: RESEARCH TOOLS AND TECHNIQUES

- Data world: population and sample - concept, meaning and sampling techniques
- Data collection methods: questionnaire, schedule, interview, observation
- Library records and reports

UNIT 4: DATA ANALYSIS, INTERPRETATION & REPORTING

- Data processing- analysis, interpretation, presentation: concept, need and purpose
- Descriptive statistics and inferential statistic
- Measures of central tendency: mean, median, mode
- Dispersion, correlations, linear Regression, standard deviation- non-parametric & parametric (chi-square test, t-test)
- SPSS and Web-based statistical analysis tools: basics
- Research report writing

Recommended Readings :

10. Charles, Busha H. and Harter, Stephen P. (1980). *Research methods in librarianship: Techniques and interpretations*. USA: Academic Press.
11. Fowler, Floyd J. (2001). *Survey research methods*. 3 rd ed. California: Sage.
12. John W. Creswell (2013). *Research design: Qualitative, quantitative, and mixed methods approach*. 4th ed . New Delhi: Sage.
13. Kothari, C. R. (2004). *Research methodology: Methods and techniques*. 2nd rev ed. New Delhi: New Age .
14. Krishan Kumar (1992). *Research methods in library and information Science*. New Delhi: Vikas.
15. Powell, Ronald R. & Connaway, Lynn Silipigni (2010). *Basic research methods for librarians. 5th ed*. New York: Libraries Unlimited.
16. Rao, I. K. Ravichandra (1983). *Quantitative methods in library and information science*. New Delhi: Wiley Eastern.
17. Young, P. V. (1982). *Scientific social survey and research*. New Delhi. Prentice Hall.
18. Menter, Ian et al (2011). *A guide to practitioner research in education*. Los Angeles: Sage.

U25LIS411T **Digital Library** **DEC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course Outcomes:

CO1: to provide basic concepts related to digital library system.

CO2: to provide basic concepts related to digital resources system.

CO3: to provide hands on experience in creation of digital libraries.

CO4: to know the concept of institutional repositories and their usages in library and institutional settings.

Note for the Paper Setter

The paper is divided into 4 Units. The examinees well be required to attempt Five questions in all, including Question 1, which is compulsory and selecting One question from each Unit (I-IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set Two questions from each Unit.

Unit 1: Digital Library

- Digital libraries: Definition, Objectives, Scope of Digital libraries
- Digital Resources: Nature, Characteristics and types
- Digital library initiatives: National and International
- Design and development of digital library: planning, design, implementation, evaluation and management

Unit 2: Digital Library Creation

- DL software: DSpace
- DL hardware: input capture devices: scanners, digital cameras
- Digitization: concept, need, methods and process
- Compression: types and methods

Unit 3: Institutional Repository

- Institutional repository: concept, definition, need, objectives and characteristics
- Design and development of IR
- IR initiatives: national and international

Unit 4: Content Management System

- Content Management System (CMS): Concept, Definition and Scope
- CMS Tools • Features and functionalities of its stakeholders
- Evaluation and selection criteria for CMS

Suggested Readings

1. Alemu, G., Stevens, B. (2015). *An Emergent Theory of Digital Library Metadata: Enrich Then Filter*. Netherlands: Elsevier Science.
2. Blaney, J., Milligan, S., Steer, M., & Winters, J. (2021). *Doing digital history: A Syllabi beginner's guide to working with text as data*. Manchester University Press.
3. Evans, W. & David B. (2013). *A Handbook of Digital Library Economics: Operations*
4. Hughes, L. M. (2004). *Digitizing Collections: strategic issues for the information manager*. New York: Neal Schuman.
5. Lawson, N. (2018). *Digital Library Preservation Strategies*. United Kingdom: EDTECH.
6. Pedley, P. (2009*). Digital Copyright*. 2nd ed. London: Facet Publishing
7. Pomerantz, J. (2015). *Metadata*. Massachusetts: MIT Press.
8. Purcell, A. D. (2016). *Digital library programs for libraries and archives: Developing, managing, and sustaining unique digital collections*. Massachusetts: MIT Press.

U25LIS412T **Database and Metrics Practice** **DEC**	**Total Credit: 4** **Total Marks: 100** **Max. Marks ET Theory: 70** **Max. Marks IA Theory: 30** **Duration of Theory Exam: 3 Hrs.**

Course Outcomes:

CO1: Execute advanced database searches for relevant information.

CO2: Analyze research metrics to assess scholarly impact.

CO3: Establish professional research profiles for networking.

CO4: Create and manage digital libraries for accessibility and preservation.

Note for the Paper Setter

The paper is divided into 4 Units. The examinees well be required to attempt Five questions in all, including Question 1, which is compulsory and selecting One question from each Unit (I-IV). Question 1 will consist of 7 short Answer (2 marks each) questions (having no internal choice) spread over the whole syllabi. The Examiner will set Two questions from each Unit.

Unit 1: Library Database Search

- Full-text databases: Science Direct, Emerald, etc.
- Citation databases: Scopus, Web of Science, etc.
- Other databases: Dimensions, Google Scholar, etc.
- Repositories: ROAR, DOAR, SHERPA/ Romeo, etc.
- Catalogues: OPAC, Web-OPAC, World-Cat, etc.

Unit 2: Research Metrics

- Impact Factor, Eigen-factor, Cite-score, etc.: Meaning and calculation.
- Finding research metrics from databases: citations, h-index, g-index, i10 index, IF, SJR, SNIP, FWCI, etc.
- Altmetrics, Altmetrics Attention Score.

Unit 3: Research Profiles and Blogs

- Creating profiles on Research Gate, Academia.edu, Google Scholar, Scopus, etc.
- Creation of ORCID.
- Journal Finder Tools.
- Designing and developing library blog.

Unit 4: Creating Digital Repositories

- Hands on practice of scanner, digital camera and OCR.
- Hands on practice of Digital Library creation using Greenstone/ DSpace.

Suggested Readings

1. Das, A. K. (2015). *Research evaluation metrics* (Vol. 4). UNESCO Publishing.
2. Morrison, A. (2013). *Blogs and blogging: Text and practice*. A companion to digital literary studies, 369-387.
3. Richardson, W. W. H. (2010). *Blogs, Wikis, Podcasts, and other Powerful Web Tools for Classrooms*. Thousand Oaks: SAGE Publications
4. Williams, K. (2022). *What counts: Making sense of metrics of research value. Science and Public Policy*, 49(3), 518-531.
5. Witten, I. H., & Bainbridge, D. (2005, June). *Building digital library collections with Greenstone*. In JCDL (Vol. 5, pp. 425-425).

U25SEC401D **Dissertation/ Project Work**	**Total Credit: 12** **Total Marks: 300**

Course outcomes (COs)

At the end students will be able:

CO1: To find, evaluate, select, consolidate and integrate information from various sources;
CO2: To prepare a proposal on a topic of research;
CO3: To write a research work following a scientific manner; and
CO4: To understand application of research in libraries and information centres.

Note: - the students will undertake a dissertation/ project work in consultation with the supervisor allotted by the Department. The work must be completed within the time frame provided by the Department. The evaluation of the Dissertation/Viva-Voce will be done by a committee formed by the University on the recommendation of Chairperson/ COE including internal examiner(s).

U25SEC420P **Working with Library Management Software- Koha** **SEC**	**Total Credit: 2** **Total Marks: 50** **Max. Marks ET Theory: 35** **Max. Marks IA Theory: 15** **Duration of Theory Exam: 2 Hrs.**

Objectives

- To introduce students to the fundamentals of Library Software.
- To make the students aware about Operations of koha.
- To introduce students about Acquisition and Serials Control.
- To introduce students to Backup of Koha.

Course Outcomes:

CO1: to provide basic concepts related to installation of Koha.

CO2: to provide basic concepts related to operations.

CO3: to provide hands on experience on acquisition and serials control.

CO4: to know the concept of reporting and backup of every modules of Koha.

Note for the Paper Setter

The paper is divided into 2 Units. The Examiner will set the paper of 20 marks from unit 1 and 15 marks from unit 2.

Unit 1: Introduction and Installation of Koha **Marks: 20**

- Circulation Management, Patron/User Management, Adding and maintaining patron records, Patron categories and privileges, Notifications & communication with users

- Acquisitions –Checking duplicate selection, Creating Vendors Profiles, Creating purchase orders, Receiving material and accessioning, Budget management,

Unit 2: Serials Control Creating Vendor Profiles **Marks: 15**

-Subscription management for serials- **receiving invoice and making payments,** receiving Journals and reporting for non-receipt Journals
- Reporting and Backup, generating standard reports (circulation, catalog, users), Customize reports and statistical reports
- System backups, import/export routines and maintenance tasks

Suggested Readings

1. ***Koha Manual*** **(Latest Version).**
2. ***Koha Community Documentation*** **(24.05/25.05)**
3. ***Unleashing Koha: The Complete Library Solution***
4. ***Koha 3 Library Management System (O'Reilly)***