

**SYLLABUS (COURSE WORK): 2021-2022**

**LIBRARY AND INFORMATION SCIENCE**

**Doctor of Philosophy (PhD)**

**DEPARTMENT OF  
LIBRARY AND INFORMATION SCIENCE**

**(School of Arts and Information Sciences)**



**Doctor Harisingh Gour Vishwavidyalaya  
(A Central University)**

**SAGAR (M.P.) 470003**

## Structure of Ph.D (Course Work) Semester-Ist (2021-2022)

S.No	TH/ PR	Paper Code	Title of the Paper	Credits
<b>Core</b>				
1	TH	LIS CC 041	Research Methodology in Library & Information Science	4
2	TH	LIS CC 042	Information Communication & ICT Applications	4
3	TH	LIS RPE CC 043	Research and Publication Ethics (RPE)	2
<b>Review of Literature</b>				
4	PR	LIS CC 044	Review of Literature	4
<b>Electives (<i>any One</i>)</b>				
5	TH	LISEC 045	Community Information and Services	4
6	TH	LIS EC 046	Library & Information Science Education and Research	4
7	TH	LIS EC 047	Bibliometrics	4
8	TH	LIS EC 048	Knowledge Organisation and Information Processing	4
9	TH	LIS EC 049	Sources of Information for Research	4
			<b>Total</b>	<b>18</b>

*Changeable as per requirement*

The distribution of (100) marks in each course consist of:

Mid-I Semester Examination: 20 Marks, Mid-II Semester Examination (Internal Assessment): 20 Marks, End Semester Examination: 60 Marks respectively.

## Research Methodology in Library and Information Science

CODE	NAME OF COURSE	L	T	P	TOTAL
LIS CC 041	Research Methodology in Library and Information Science	3	1	0	4

### Unit-1: Research Domain (12 hrs.)

- Introduction to Research Methodology
- Philosophical foundation of Library and information Science Research
- Research Problem and Research Design
- Identification and formulation of problem, Formulation of Hypotheses

### Unit-2: Research Methods in LIS and Research Metrics (12 hrs.)

- Types of Research Methods: Quantitative and Qualitative
- Research Techniques and Tools: Questionnaire, Interview, Observation, Schedule, Check-list,.
- Research Sampling Techniques
- Metric Studies in LIS: Bibliometrics, Scientometrics, Informetrics, Webometrics, Altmetrics and Citation analysis.

### Unit-3: Data Analysis and Interpretation (12 hrs.)

- Techniques for analyzing data
- Qualitative content analysis
- Interpretation and Presentation of Results: Table, Charts and Graphs

### Unit-4: Current Research Trends and Ethics (12 hrs.)

- Current Research Trends in Library & Information Science
- Research Ethics and Integrity

### Unit-5 : Research Report Writing (12 hrs.)

- Research Report: concepts, Structure, style, Writing
- Guidelines for research reporting (Style manuals – Chicago, MLA, APA, etc.
- Citation styles: Footnotes, References including Bibliographic description.

### Suggested Reading

Charles H. Busha & Stephen, P. Harter (1980). Research Methods in Librarianship: Techniques and Interpretation. New York: Academic Press.

Connaway, L S & Powell R R. (2010) Basic research methods for librarians. 5th ed. California, Libraries unlimited..

Fowler, F.J. (1993) Survey Research Methods. New Delhi, Sage.

Gibaldi, Joseph. (2008) MLA Style Manual and Guide to Scholarly Publishing. America, Modern Language Association of America.

Glootenberg A.(2013) Research methodology in Library and information science, Uxbridge, Koros.

Goode, William J and Hatt, Paul K. (1982). Methods in Social Research. New York, McGraw-Hill Book Company.

- Greenfield, T. (1996) *Research Methods: Guidance for Postgraduates*. London: Hodder Arnold.
- Khotari, R.C.(1985) *Research Methodology: Methods & technique*, Delhi, Wiley Eastern Ltd.
- Kothari, C R. (2006) *Research methodology: Methods & Techniques* (Rev. Ed.) New Delhi, New Age International.
- Leo, Egghe and Rousseau, Ronald. (2001). *Elementary Statistics for Effective Library and Information Service Management*. London, Aslib.
- Marurice, B. Line. (1982) *Library Surveys: An introduction to the use, planning procedure and presentation of surveys*. 2nd ed. London, Bingley.
- Mary Lee, Bundi. (1983) *Reader in Research Methods for Librarianship*. USA, Greenwood Press.
- McClure, Charles R. and Hernon, Peter, Eds. (1991) *Library and Information Science Research: Perspectives and Strategies for Improvement*. NJ: Ablex PUB. Corp. 400p
- Powell, Ronald R. and Connaway, Lynn Silipigni. (2004) *Basic Research Methods for Librarians*. 4th ed. Westport, Libraries Unlimited.
- Ravichandra Rao. I.K.(1985) *Quantitative methods for Library and Information Science*, New Delhi, Wiley Eastern.
- Roig ,M. (2006) *Avoiding plagiarism, self-plagiarism, and other questionable writing practices: A guide to ethical writing*.
- Slater, M. (1990) *Research Methods in Library and Information Studies*. London, L.A.
- Stevens, R.E., *ed.* (1971) *Research Methods in Librarianship*. London, Clive Bingley.
- Vaughan L. (2004) *Statistical methods for the information professional: A practical, painless approach to understanding, using and interpreting statistics* 2nd ed. Medord, Information Today,
- Willemese I (2009) *Statistical methods and calculation skills*. 3rd ed. Cape Town, Juta.
- Young, P.V. (1984) *Scientific Social Survey and Research*. Rev. 4th ed. New Delhi, Prentice Hall.

## Information Communication & ICT Applications

CODE	NAME OF COURSE	L	T	P	TOTAL
LIS CC 042	Information Communication & ICT Applications	3	1	0	4

### Unit-1: Information Communication (12 hrs.)

- Concept, types, generation,
- Channels, Process and Barriers
- Communication models
- Communication skills

### Unit -2: ICT -Overview (12 hrs.)

- Web Technology & Interactive Digital Resources: Nature, Features and Types;
- Internet and Web Technology including Library Service Web Tools (Generations starting with 2.0), Information Mashup, Social Network etc., LIS Discussion Forums and Mailing Lists (ListServes)
- OAI and Metadata harvesting, Data mining and data warehousing, Standards - Z39.50, RDA, Dublin Core

### Unit -3: ICT Applications (12 hrs.)

- Overview: Web Browsers, Search Engines
- Selected Research Application Soft wares including spreadsheets and graphing tools for data handling and analysis.

### Unit -4: On-line Search and Retrieval (12 hrs.)

- Subject Analysis and Content Analysis
- Search Techniques
- Search Strategy

### Unit -5: Research Reporting (12 hrs.)

- Technical writing: methods for preparation and reporting
- Research Report: Format, preparation
- Electronic content creation and dissemination.

### Suggested Reading

- Bachalor, Bridget. (1991) How to market your library services. ed.2, London, ASLIB.
- Bates, M J. (2011) Understanding Information Retrieval Systems: Management, Types, and Standards. USA, Auerbach Publications.
- Chowdhury, G.G. and Chowdhury, Sudatta. (2000) Searching CD-ROM and online Information Sources. London, Library Association.
- Dickson, G.W. and Desanctis, G. Information technology and the future enterprise: New models for managers. New Jersey, Prentice Hall.

Eppler, M J. (2006) Managing Information Quality. USA, Springer.

Gopinath, M.A. (1984). Information Sources and Communication Media (Annual Seminar). Bangalore, DRTC.

Hodge, Gail. Cataloging and Indexing of Electronic Information Resources. <ftp.rta.nato.int/public//PubFullText/RTO/EN/RTO...//EN-026-06.pdf>

- Jain, A K and Jhambekar, Ashok. (2000) Marketing Information Products and Services: A Primer for Librarians and Information Professionals. New Delhi, Tata McGraw Hill.
- Kingma, B R. (2001) Economics of Information: A Guide to Economic and Cost-Benefit Analysis for Information Professionals. Colorado, Libraries Unlimited.
- Lancaster, F.W. (3rd. ed. 2003). Indexing and Abstracting in Theory and Practice. London, LA
- Lee, Sul H. (2011) Repackaging Libraries for Survival. London, Routledge.
- Liu, Sifeng. (2010) Grey Information: Theory and Practical Applications (Advanced Information and Knowledge Processing). USA, Springer.
- Lourdes T. David. (2001) Introduction to Information and Communication Technologies (Module1) Bangkok, UNESCO, Information and Information Unit, 191p.
- McGarry, K.J. (1975) Communication Knowledge and the librarian. London, Clive Bingley, 207p.
- McQuail, Denis and Windahi. (1984) Seven Communication Models for the Study of Mass Communication. New York, Longman Inc., 110p.
- Saracevic, Tefko and Wood, Judith B. Consolidation of Information. A Handbook on Evaluation, Restructuring and Repackaging of Scientific and Technical Information. Pilot Edition
- Seetharama, S. (2009) Information Consolidation and Repackaging. New Delhi, Ess Ess Pub.
- Vishwanathan T. (1995) Communication Technology. New Delhi, T.M.H.
- Weber, R P. (1990) Basic Content Analysis. New Delhi, Sage.

## Research and Publication Ethics (RPE)

CODE	NAME OF COURSE	L	T	P	TOTAL
<b>LIS RPE CC 043</b>	<b>Research and Publication Ethics (RPE)</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>

### Course Structure

- The course comprises of six modules listed in table below. Each module has 4-5 units.

Modules	Unit Title	Teaching hours
<b>Theory</b>		
RPE 01	Philosophy and Ethics	4
RPE 02	Scientific Conduct	4
RPE 03	Publication Ethics	7
<b>Practice</b>		
RPE 04	Open Access Publishing	4
RPE 05	Publication Misconduct	4
RPE 06	Databases and Research Metrics	7
	<b>Total</b>	<b>30</b>

### Syllabus in detail

#### THEORY

- RPE 01: PHILOSOPHY AND ETHICS (4hrs.)**
  - Introduction to philosophy : definition , nature and scope, concept, branches
  - Ethics: definition, moral philosophy, nature of moral judgements and reactions
- RPE 02: SCIENTIFIC CONDUCT (4 hrs.)**
  - Ethics with respect to science and research
  - Intellectual honesty and research integrity
  - Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
  - Redundant publications: duplicate and overlapping publications, salami slicing
  - Selective reporting and misrepresentation of data

- **RPE 03: PUBLICATION ETHICS (7hrs.)**
  1. Publication ethics: definition, introduction and importance
  2. Best practices/ standards setting initiatives and guidelines: COPE, WAME, etc.
  3. Conflicts of interest
  4. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types
  5. Violation of publication ethics, authorship and contributorship
  6. Identification of publication misconduct, complaints and appeals
  7. Predatory publishers and journals

## **PRACTICE**

- **RPE 04: OPEN ACCESS PUBLISHING (4hrs.)**
  1. Open access publications and initiatives
  2. SHERA/RoMEO online resources to check publisher copyright & self –archiving policies
  3. Software tool to identify predatory publications developed by SPPU
  4. Journal finder/ journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.
- **RPE 05: PUBLICATION MISCONDUCT (4hrs.)**
  - A. Group Discussions (2hrs.)**
    1. Subject specific ethical issues, FFP, authorship
    2. Conflicts of interest
    3. Complaints and appeals: examples and fraud from India and abroad

### **B. Software tools (2hrs.)**

Use of plagiarism software like Turnitin, Urkund and other open source software tools

- **RPE 06: DATABASES AND RESEARCH METRICS (7 hrs.)**
  - A. Databases (4hrs.)**
    1. Indexing databases
    2. Citation databases: Web of Science, Scopus, etc.
  - B. Research Metrics (3hrs.)**
    1. Impact Factor of journal Citation Report, SNIP, SJR, IPP, Cite Score
    2. Metrics: h-index, g-index, i10 index, altmetrics.

## **References**

Bird, A. (2006). *Philosophy of Science*. Routledge.

MacIntyre, Alasdair (1967) *A Short history of Ethics*. London.

P. Chaddah, (2018). *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN:978-9387480865.

Resnik, D.B. (2011). What is ethics in research & why is it important. National Institute of Environmental Health Science, 1-10. Retrieved from <http://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>

Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019), ISBN:978-81-939482-1-7. [http://www.insaindia.res.in/pdf/Ethics\\_Book.pdf](http://www.insaindia.res.in/pdf/Ethics_Book.pdf).



### **Review of Literature**

CODE	NAME OF COURSE	L	T	P	TOTAL
<b>LIS CC 044</b>	<b>Review of literature</b>	-		<b>4</b>	<b>4</b>

**(60 hrs.)**

## Community Information and Services

CODE	NAME OF COURSE	L	T	P	TOTAL
LIS EC 045	Community Information and Services	3	1	0	4

### Unit -1 Community Information (12 hrs.)

- Concept, meaning, definition, need, scope, uses
- Information Literacy
- Application of ICT- Radio (FM and other) TV, Computers, Mobile Technologies and others

### Unit -2 Community Information System (12 hrs.)

- Needs analysis, planning, designing
- Application, execution and evaluation
- Invisible colleges, Folklore, Mass media, etc.

### Unit-3 Designing Web enhanced Community Information System (12 hrs.)

- Discovery phase: Goals
- Project Plan
- Technical Brief of the Website

### Unit -4. Community Education (12 hrs.)

- Information needs of Rural/ Urban community
- Design and development of Information System for NGO's
- Indian Initiatives—Gyan Vahini, Akshya, Gyandoot, Setu, e-Seva, Bhoomi, etc.

### Unit- 5. Areas of Community Information Services (12 hrs.)

- Sustainability studies – funding, executing, evaluation, reporting
- Selected areas: Health, Education, Employment, Agriculture, Village Industries, Utilisation of Local Resources, Transport, Daily necessities,
- Government Welfare Schemes, Consumer Services, Housing, etc.

### Suggested Reading

- Ainley, P. (1980) Basics of community information: an action handbook for librarian. London, Association of Assistant Librarians
- Bunch, A. (1982). Community information services: The origin, scope and development. London, Clive Bingley.
- Bunch, A. (1993) .The basics of community information work. London, Library Association.
- Buddy, M.L. (1999) Alternatives to Traditional Library Services: a casebook, Urban information interpreters, College park, 1977. In Stilwell, C. Community information services: a view of the theoretical foundations. DESIDOC Bulletin of Information Technology. 19(1). p.15-33.
- Coleman, P. (1986).Community information policy and provisions. *ASLIB Proceedings*. 38 (9): 305-316.

- Croneberger, R., Kapecky, M., Luck, C., & Appalachian Adult Education Center (Morehead State University) (1975). The library as a community information and referral centre. Morehead, Ky, Appalachian Adult Education Center. Morehead State University.
- Durrance, J. C., & Fisher, K. E. (2002). Online community information: creating a nexus at your library. Chicago, Ill, American Library Association.
- Durrance, J. C., & Schneider, K. G. (1996). Public library community information activities: Precursors of community networking partnerships.
- Giggey, S. (1988) Rural Community Resources: A guide for developing countries. London, MacMillan.
- Hevner, Alan and Chatterjee, Samir. (2010) Design Research in Information Systems: Theory and Practice. New York, Springer.
- Kelkar, S A. (2009) Information Systems: A Concise Study. New Delhi, PHI.
- Kempson, E. (1986) Information for Self-reliance and Self-determination: The role of community information services. *IFLA Journal*. 2(3). 182-191.
- Library Association. (1980). Community information: what libraries can do: a consultative document .London, Library Association.
- Matthew, H. (1988) Community information: A manual for beginners Newcastle- under-Lyme, AAL Pub.
- Mukhopadhyay, P. (2004). Community information services through web and CD-Rom: An open source framework for public libraries in India. (Retrieved March 2014 from <http://www.drta.isibang.ac.in/xmlui/handle/1849/185>)
- Mukhopadhyay, P. (2011). Digital community information system: a framework for India. Germany, LAP Lambert Academic Publishing.
- Pantry, S. (1999) Building community information networks: strategies and experiences. London, LA
- Quinn, H S. (2011) Community Information Needs in a Broadband Media Age. UK, Nova Science.
- Reid, B. (1977) Community Information and the Library. *Australian Library Journal*. 26(2): 30-36.
- Rubakin, A.N. (1968) The Life of Nicholas Rubakin. In Semsova, S, ed. Nicholas Rubakin and bibliopsychology. London, Bingley.( <http://eprints.rclis.org/8384/>)
- Turick, D. (1978) Community information services in libraries. New York, Library Journal
- Usherwood, B. (1999) The Neighbourhood Information Network, Dept. of Librarianship, Liverpool polytechnic, Liverpool, 1977. In Vishwa, M and Raju, A.A.N. Community Information Concepts. *DESIDOC Bulletin of Information Technology*. 19(1): 5-14.

## Library and Information Science Education and Research

CODE	NAME OF COURSE	L	T	P	TOTAL
LIS EC 046	Library and Information Science Education and Research	3	1	0	4

### Unit-1: Library Science Education (12 hrs.)

- Sociology of library and information science education
- Level of courses in education for librarianship and their objectives
- Continuing education for Library & Information personnel
- Partnership with Different Agencies (teaching departments, government bodies at National level)

### Unit-2: Accreditation of LIS Courses (12 hrs.)

- Curriculum Design: Methodology
- Role of UGC in curriculum development
- Teaching techniques and evaluation of student performance

### Unit-3: Accreditation Issues (12 hrs.)

- Role of UGC
- Role of NAAC

### Unit-4: Trends in Library and Information Science Education (12 hrs.)

- Research trends at national and international levels
- Faculty development: Manpower planning and its impact on library and information Science Education
- Development of research programme in library and information science

### Unit-5: Current Research Areas in Library and Information Science (12 hrs.)

- Changes in the LIS Education and Research
- Content analysis of the recent Information need
- Electronic Commerce in LIS Education

### Suggested Reading

Agarwal, S.P.; Mythili, T. & Soni, Rajni. (1996) Directory of LIS education in India. New Delhi, Reliance.

Agarwal, S P. (1997) Library and information studies in India. In: Prasher, R G, ed: Library and information science: Parameters and perspectives. V1. New Delhi, Concept Publishing Company.

Agarwal, S.P. (2004) Library and Information Science Education in India, In Mangla, P.B.and Parasher, R.G. (Eds.): LIS Education in South Asia: Progress, Problems and Prospects. Ludhiana, Medallian.

- Agarwal, S.S. (1986) Library and Information Science Education in India. In: Gupta, P.K. and Pawan, Usha (Eds.): Library and Information Science. Jaipur, RBSA Pub.
- Annual Report (2006-2007). Department of Higher Education, Ministry of Human Resource Development, Government of India.
- Association of Indian Universities. (2003) Handbook on Library and Information Science, 2003. New Delhi: Association of Indian Universities.
- Baba, Abdul Majid, (1999) Accrediting agencies for library and information science education. Paper presented at the 45th All India Library Association Conference, Dec 1999, Hisar, India.
- Daniel, Evelyn H. (1991) Library/Information Science Education: The research ethos. In, McClure, Charles R. and Hernon, Peter, eds. Library and Information Science Research: Perspectives and Strategies for Improvement. NJ, Ablex PUB. Corp. pp128-142.
- Duran, Cheryl. (1991) The role of LIS education. In, McClure, Charles R. and Hernon, Peter, eds. Library and Information Science Research: Perspectives and Strategies for Improvement. NJ, Ablex PUB. Corp. pp128-142.
- Dutta, Bidyarthi and Das, Anup Kumar. (2001) Higher Education in Library and Information Science in India. *ILA Bulletin*. 37, (1): 25-30.
- Krishan Kumar & Sharma, Jaideep. (2009) Library and information science education in India. New Delhi, Har-Anand.
- Mahapatra, G. (2006). LIS education in India: Emerging paradigms, challenges and propositions in the digital era. In Proceedings, Asia Pacific Conference on Library & Information Education & Practice, Singapore, 3-6 April, 2006. 1-15 pp
- Mangla, P. B. (1998) Library and Information Science Education: Trends and issues, In: Jain, M K, ed. Fifty years of Library and Information Services in India. New Delhi, Shipra: 285-293.
- Patel, Jashu and Krishan Kumar. (2001) Libraries and Librarianship in India. London, Greenwood Press.
- National Knowledge Commission (India). (2006) Report to the nation. National Knowledge Commission, India, 2007.
- Neelmeghna, A. (1974) Education for Librarians in India. In: Encyclopedia of Library and Information Science. New York, Marcel Dekker. V.2, p.323.
- Satija, M. P. (1998) Whom do we serve? : Doctoral research in Library and Information Science in India. *Desidoc Bulletin of Information Technology*. 18 (1): 19-24.
- UGC (India). (1965) Review Committee Report on Library Science in Indian Universities. New Delhi, University Grants Commission (Chairman: S R Ranganathan).
- University Grants Commission (India). (1992) Report of the Curriculum Development Committee (CDC) on Library and Information Science (Chairman: P N Kaula). New Delhi, University Grants Commission.
- University Grants Commission (India). (2001) UGC model curriculum: Library and Information Science. (Chairman: C R Karisiddappa). New Delhi, University Grants Commission.

## Bibliometrics

CODE	NAME OF COURSE	L	T	P	TOTAL
<b>LIS EC 047</b>	<b>Bibliometrics</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>4</b>

### Unit 1: Introduction to Bibliometrics (12 hrs.)

- Scope and Features of Librametry
- Bibliometrics, Scientometrics, Informetrics, Cybermetrics and Webometrics
- Citations vs. Hyperlinks,
- Altmetrics and Article-Level Metrics

### Unit 2: Theories, Laws and Indicators (12 hrs.)

- Bibliometric Laws: Lotka's Law, Bradford's Law, Zipf's Law; Empirical Laws of Price, Garfield, Application of Bibliometric Laws in Web;
- Bibliometric indicators (Journal Impact factor, h-index and its derivatives, etc.).
- Webometric indicators (Web Impact Factor, WISER, etc.)

### Unit 3: Citation Analysis and its Application (12 hrs.)

- Journal Ranking; Age study and obsolescence;
- Authorship Collaboration; Self-citation, Productivity,
- Mapping of Science; Bibliographic coupling: Co-word, Co-citation coupling.

### Unit- 4 : Bibliometric and Webometric Tools (12 hrs.)

- Bibliometric tools – SCI, SSCI, A&HCI, SCOPUS, Google Scholar, etc;
- Webometrics tools – Generic search engines and specialized tools (LexiURL, SocSciBot Internet Archive, Pajek, etc.)
- Altmetrics tools (Altmetric, ImpactStory, PloS, etc.); OA movement and Informetrics.

### Unit- 5: Bibliometric and Statistical Analysis (12 hrs.)

- Statistical Analysis and Interpretation of Data: Frequency Distribution, Measures of Central Tendency: Mean, Median and Mode
- Regression Analysis and Correlation Coefficients

### Suggested Reading

Andres, A. (2009). Measuring academic research: how to undertake bibliometric study . Oxford, Chandos Publishing.

Andrews, Penny & Leeds Metropolitan University. (2013) Amplifying your research and academic profile– a researcher's guide to social media and altmetrics.

Borgman, C. L. (1990) Scholarly communication and bibliometrics. Newbury Park, Sage Publications.

Braun, T. (2007). The impact factor of scientific and scholarly journals: Its use and misuse in research evaluation: a selection of papers reprinted mainly from the journal Scientometrics. Budapest, Akadémiai Kiadó.

- Cronin, B., & Sugimoto, C. R., Ed. (2014) Beyond bibliometrics: harnessing multidimensional indicators of scholarly impact. Cambridge, Mass., MIT Press.
- De Bellis, N. (2009). Bibliometrics and citation analysis: from the Science citation index to cybermetrics. Lanham, MD, Scarecrow Press.
- Egghe, L. (2005). Lotkian Power laws in the information production process: Lotkian informetrics. Amsterdam, Elsevier/Academic Press.
- Egghe, L., & Rousseau, R. (1990). Introduction to informetrics: quantitative methods in library, documentation, and information science. Amsterdam, Elsevier Science Publishers.
- Egghe, L., Neelameghan, A., & Sarada Ranganathan Endowment for Library Science. (2000) Lectures on informetrics and Scientometrics. Bangalore, Sarada Ranganathan Endowment for Library Science.
- Egghe, Leo. (2009). Lotkian informetrics and applications to social networks. The Belgian Mathematical Society.
- Eom, S. B., & IGI Global. (2009). Author co-citation analysis: quantitative methods for mapping the intellectual structure of an academic discipline. Hershey, PA, IGI Global.

## Knowledge Organization and Information Processing

CODE	NAME OF COURSE	L	T	P	TOTAL
LIS EC 048	<b>Knowledge Organization and Information Processing</b>	3	1	0	4

### Unit 1: Subjects and Isolates (12 hrs.)

- Types and Modes of formation of subjects
- Isolates: Common and Special, Speciators
- Categories – Ranganathan, Farradane, Vickery, etc; ,

### Unit 2: Theory of Library Classification (12 hrs.)

- General Planes of work
- Normative principles – Laws, Canons,
- Principles of classification by Sayers, Bliss, Richardson and Ranganathan;
- Postulates; Theory of Integrative Levels;
- Study of special classification schemes- Design of special classification schemes

### Unit 3: Terminology and Classificatory Language (12 hrs.)

- Terminology
- Notational System
- Mnemonics

### Unit 4: Schemes of Library Classification: Comparative study (12 hrs.)

- CC, DDC, UDC
- Revision Policy

### Unit 5: Classification and Computers: Recent Trends (12 hrs.)

- Classification and Digital resource organization
- Web Dewey;
- Use of DDC for organization of digital resources;

### Suggested Reading:

Broughton, Vanda. (2004). Essential classification. London, Facet Publishing

Chan, L. M., Richmond, P. A., & Svenonius, E. (1985). Theory of subject analysis: A source book  
Littleton, Colo, Libraries Unlimited

Dhyani, P. (1998). Library classification: theory and principles. New Delhi, Wishwa Prakashan.

F.I.D. (1993). Universal Decimal Classification. IME. London, BSI

Forest Press. (2002). WebDewey. Dublin, Ohio, OCLC Forest Press.  
<http://www.oclc.org/content/forms/worldwide/en/webdewey-free-trial.html>

Husain, Sabahat (2004). Library classification: Facets and analysis. Delhi, B. R. Publishing.

Krishan Kumar (1980). Theory of classification. New Delhi, Vikas.

Kumbhar, R. (2011). Library classification trends in the 21st century. Burlington, Elsevier Science



- Langridge, D.W. (1992). *Classification: Its kinds, Elements, Systems, and Applications*. London, Bowker Saur, p. 2-23.
- Maltby, A. (1975). *Sayers' manual of classification for librarians. 5th ed.* London, Andre Deutsch.
- Needham, C. D. (1971). *Organizing knowledge in libraries. 2nd ed.* London, Andre Deutsch.
- Ranganathan, S.R. (1967). *Prolegomena to library classification. 3rd ed.* Bombay, UBS.
- Rowley, J.E. & Farrow, J. (2000). *Organizing knowledge: an introduction to managing access to information. 3rd ed.* Aldershot, Gower.
- British Standards Institution. (1963). *Guide to the Universal Decimal Classification (UDC)*. London, BSI.
- British Standards Institution. (1993). *Universal Decimal Classification: International medium edition*.
- British Standards Institution. (2005). *UDC, Universal Decimal Classification*. London, BIS.
- Rigby, M. (1981). *Automation and the UDC, 1948-1980*. The Hague, FID
- Robinson, G. (1979). *UDC, a brief introduction*. The Hague, International Federation for Documentation
- Satija, M. P. (2011). *The theory and practice of the Dewey Decimal Classification System*. Oxford, Chandos Publishing.

## Sources of Information for Research

CODE	NAME OF COURSE	L	T	P	TOTAL
<b>LIS EC 049</b>	<b>Sources of Information for Research</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>4</b>

### **Unit 1. Information Sources (12 hrs.)**

- Sources, characteristics and their types
- Institutional Sources: Organizations, Research projects, etc.,
- Documentary / Non- Documentary sources
- Non-book materials Internet as source of information; Reference Vs Plagiarism,

### **Unit –2. Descriptive References Sources: Features (12 hrs.)**

- Dictionaries, Encyclopedias, Directories, Biographical, Geographical, Year Books and Almanacs, Current Reference Sources

### **Unit -3. Bibliographic Sources: Features (12 hrs.)**

- Bibliographies
- Indexing & Abstracting sources,

### **Unit -4. Digital Information Sources (12 hrs.)**

- Electronic resources-web resources
- Databases, Consortiums, Subject Gateways, Portals, Blogs, Wikis,etc.

### **Unit-5 Online Information and Reference Sources (12 hrs.)**

- Illustrative- IEEE / IEE Electronic Library Online (IEL), Emerald, EBSCO, PsycINFO, Elsevier Science, PubMed Central, J-Gate , J-Store, Web of Science, SCOPUS, SciFinder Scholar, PLOS, DOAJ, RePEc, Google Scholar), *Commercial Tools (e.g. Xrefer.com), Cross Publisher*

### **Suggested Readings:**

- Alan P., Gwyneth T. and Goff S.(1999). The Library and Information Professional's Guide to the World Wide Web. London, Facet Publishing.
- Chowdhury, G. G. and Sudatta Chowdhury(2001). Searching CD-ROM and Online Information Sources. London : Facet Publishing.
- Chowdhury, G. G. and Sudatta Chowdhury(2001). Information Sources and Searching on the World Wide Web. London, Facet Publishing.
- Gopinath, M.A.(1984). Information Sources and Communication Media. Bangalore, DRTC.
- Grogan, Dennis. (1984).Science & Technology: An introduction to literature, London, Clive Bingley.
- Katz, W.A. (2000). Introduction to reference work, London: Butterworths. 2V.
- Krishna Kumar (2003). Reference service, Ed.3, New Delhi, Vikas.
- Rao, I.K.R(2001). Electronic sources of Information. Bangalore, DRTC
- Sewasingh (2001). Hand book of international sources on reference and Information. New Delhi, Crest Publication.
- Sharma, J.S & Grover, D.R (1998). Reference service and sources of Information. New Delhi, Ess Ess.
- Subramanayam, K. (1981). Scientific and technical Information resources. New York, Marcel Dekkar.
- Walford, A.J. (1990). Guide to reference materials, London: Library Association. 3V.

**Vision:** We envisage to be a vibrant and dynamic center of learning for Library and Information Science providing quality information to Library and Information Science students.

**Mission:** Our mission is to train students in various aspects of library management. We aim to provide sound theoretical knowledge enriched with practical training on latest technology. Our goal is to prepare our students as info-literate leaders who are well trained to adopt and adapt to changing information landscape.