PhD in Library and Information Science

SYLLABUS (Revised)

2021

Approval Status

DRC Approved   : 06.08.2021
Board of Studies Approved   : 21.09.2021
Academic Council Approved : 24.09.2021

Department of Library and Information Science
Central University of Tamil Nadu
Neelakudy Campus, Kangalancherry
Thiruvarur – 610 005
Tamil Nadu, INDIA

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

Ph.D. COURSE WORK

SCHEME OF PAPERS UNDER CREDIT SYSTEM - 2021

SN	Course Code	Name of the Course	Credit Distribution				Marks (Scaled)
			L	P	T	Total	
1	LISR01	Research Methodology	3	0	1	4	100
2	LISR02	Information and Knowledge Society	3	0	1	4	100
3	LISR03	Research and Publication Ethics (RPE)	1	1	0	2	100
4	LISR04	Area of Specialisation	2	0	2	4	100
Total Credits			**9**	**1**	**4**	**14**	**400**

Programme Outcomes

Name of the Programme	Outcomes
Doctor of Philosophy in Library and Information Science (Ph.D. in LIS)	This programme prepares the student with research mind, increasing professional competencies, skill development in research & development in LIS, and quality researcher in the field.

Course Outcomes

Course Code & Title of the Course	Course Outcomes
LISR01: Research Methodology	After completion of the course, students will be able to develop their aptitude in research, understand the basic concept and philosophies of the research.
LISR02: Information and Knowledge Society	After completion of the course, students will be able to understand the social system of communication and knowledge transfer, use of knowledge in society and its management, and socio-economic aspects of information in social stratification.
LISR03: Research and Publication Ethics (CPE-RPE)	After completion of the course, students will be able to understand the philosophy of science and ethics, research integrity, publication ethics and shall be able to understand the hands-on sessions to know and to avoid research misconduct and predatory publications in the field. Further students will be able to know the use of indexing and citation databases, open access publications, research metrics, and plagiarism.
LISR04: Area of Specialization	After completion of the course, students will be able to select research area of LIS and achieve expertise in the area by producing quality research.

LISR01: RESEARCH METHODOLOGY

Credit Distribution			Total Credits	Internal Marks		Semester Exam	Total Marks
L	P	T	L+P+T	C1	C2	C3	C1+C2+C3
3	0	1	04	20	20	60	100

Unit 1: Fundamentals of Research
- Research: Concept, Meaning, and Definition, Objectives of Research
- Methods of Research: Scientific Research, Historical Research, Descriptive Research, Qualitative Research, Quantitative Research, Pure vs Applied Research,
- Importance/Significance of Research

Unit 2: Planning and Designing of Research Problem
- Selection of Research Problem: Method of Selection, Sources of Problems, Process of Identification, Criteria of Selection, Formulation of Research Problem
- Hypothesis: Concept, Types, Functions, Formulation and Testing of Hypothesis
- Research Design: Steps/Methods of Research Design, Writing the Research Proposal
- Literature Search for Review: Print and Electronic Sources

Unit 3: Research Techniques & Tools
- Survey, Observation, Experimental, Case Study, Delphi, Schedule, Interview & Questionnaire
- Interview & Schedule: Types, Merits & Limitations
- Questionnaire: Types, Merits & Limitations

Unit 4: Sampling & Data Collection
- Meaning and Importance of Data, Sources of Data, Types of Data, Use of Primary and Secondary Data
- Sampling and Data Collection Tools: Sampling Techniques, Sample Design, Sample Size
- Statistical Tests, Analysis of Data (Descriptive Statistics), Interpretation of Tables, Graphical Presentation of Data

Unit 5: Research Reporting & Trends
- Organisation of Report, Structure, Style, Contents, Guidelines of Research Reports
- Research Methods in LIS, Current Developments
- Role of Research in the Development of Scholarship

References

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

Kothari, C.R. (2004). *Research Methodology: Methods and Techniques* (2nd ed., Reprint). New Delhi: New Age International.

Krishan Kumar. (1992). *Research Methods in Library and Information Science*. New Delhi: Vikas Publishing House.

McClure, C. R. & Harnon P. (1991). *Library and Information Science Research: Perspectives and Strategies for Improvement*. Norwood, NJ: Ablex Publishing.

Powell Ronald R. (1991). *Basic Research Methods for Librarians* (2nd ed.). Norwood, NJ: Ablex.

Ranjit Kumar. (1999). *Research Methodology: A Step-by-Step Guide for Beginners*. Delhi: Sage.

Rao, I.K.R. (1983). *Quantitative Methods for Library and Information Science*. New Delhi: Wiley Eastern.

Yin, R.K. (1994). *Case Study Research: Design and Method*. California, Thousand Oaks.

Young, P.V. (1996). *Scientific Social Surveys and Research*. New Delhi: Prentice Hall.

Connaway, L. S. & Radford, Marie L. (2017). *Research Methods in Library and Information Science*. Libraries Unlimited.

Flick, U. (2015). *Introducing Research Methodology: A Beginner's Guide to Doing a Research Project*. Sage.

Kumar, P.S.G. (2004). *Research and Statistical Techniques*. B R Publishing.

Wallace, Danny P. & Fleet, Connie Van. (2012). *Knowledge into Action: Research and Evaluation in Library and Information Science*. Libraries Unlimited.

LISR02: INFORMATION AND KNOWLEDGE SOCIETY

Credit Distribution			Total Credits	Internal Marks		Semester Exam	Total Marks
L	P	T	L+P+T	C1	C2	C3	C1+C2+C3
3	0	1	04	20	20	60	100

Unit 1: Information Society
- Information Society: Attributes, Characteristics & Components
- Information Infrastructures: National and Global
- Information Economics, Economics of Information
- National Information Policy, Digital Information Literacy

Unit 2: Knowledge Society
- Concept of Knowledge Society
- Knowledge Economy and Knowledge Industry
- Knowledge Management, National Knowledge Commission
- Libraries as Gateways to Knowledge, Role of Knowledge Professionals

Unit 3: Digital Information Management
- Socio Economic Aspects of Digital Information
- Policies, Projects, Initiatives, Committees etc.
- Library Networks, INFLIBNET, Consortia, e-ShodhSindhu
- Electronic Theses and Dissertations
- Digital Library, National Digital Library (MHRD)

Unit 4: Trends and Developments in Knowledge Society
- Role of Information in Planning, Decision Making, Innovations and National Developments
- Impact of Information and Knowledge Society on Education, Training and Research
- Conventional vs Web Based Learning, MOOC
- Trends and Developments in LIS Education and Research with Special Reference to Knowledge Society
- Impact of Social Media on Society and National Development

References

Allan, Barbara. (2002). *E-Learning and Teaching in Library and Information Services*. London: Facet Publishing.

Amidon, Debra M. (2001).*Innovation Strategy for the Knowledge Economy*. Oxford: Butterworth – Heinemann.

Boone, Mary E. (2001). *Managing Interactively: Executing Business Strategy, Improving Communication, and Creating a Knowledge-Sharing Culture*. McGraw-Hill Education.

Carroll, Michael L. (1996). *Cyber Strategies: How to Build an Internet based Information*. New York: Van Nostrand Reinhold.

Cassidy, Ainta. (1998). *A Practical Guide to Information System Strategic Planning*. Boca Raton: St Lucie Press.

Deegan, M & Sanner, T. (2001). *Digital Futures: Strategies for the Information Age*. London: Facet Publishing.

Morrell, Deel & Gamlen. (1995). *Electronic Networks: Potential Liabilities for Network Providers and Users Organization*. New York: McGraw Hill.

National Knowledge Commission. (2007). *Libraries: Gateways to Knowledge*. New Delhi: NKC.

National Knowledge Commission. (2007). *NKC: Report to the Nation-2006*. New Delhi; NKC.

Neef, D. (1998). Rethinking Economics in the Knowledge Base Economy. *In*: *The Economic Impact of Knowledge*. Boston: Butterworth Heinemann.

Duff, Alistair S.(2013).*Information Society Studies*. Routledge.

Lauder, Hugh.(2012).*Educating for the Knowledge Economy? Critical Perspectives*. Routledge.

Lyon, David.(2013). *The Information Society: Issues and Illusions*. Wiley.

Reports from United Nations, UNESCO etc.

LISR03: RESEARCH AND PUBLICATION ETHICS (RPE)

Credit Distribution			Total Credits	Internal Marks		Semester Exam	Total Marks
L	P	T	L+P+T	C1	C2	C3	C1+C2+C3
1	1	0	02	20	20	60	100

Theory
RPE 01: Philosophy and Ethics
- Introduction to Philosophy: Definition, Nature and Scope, Concept, Branches
- Ethics: Definition, Moral Philosophy, Nature of Moral Judgements and Reactions

RPE 02: Scientific Conduct
- 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
- Publication Ethics: Definition, Introduction and Importance
- Best Practices/Standards Setting Initiatives and Guidelines: COPE, WAME, etc.,
- Publication Misconduct: Definition, Concept, Types, Problems that Lead to Unethical Behaviour and Vice-versa
- Violation of Publication Ethics, Authorship and Contributorship
- Conflicts of Interests
- Identification of Publication Misconduct, Complaints and Appeals
- Predatory Publishers and Journals

Practice
RPE 04: Open Access Publishing
- Open Access Publications and Initiatives
- SHERPA/ROMEO Online Resources to Check Publisher Copyright & Self-Archiving Policies
- Software Tool/Website (UGC-CARE Website) to Identify Predatory Publications Developed by Savitribai Phule Pune University (SPPU)
- Journal Finder/ Journal Suggestion Tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester etc.

RPE 05: Publication Misconduct
  A. *Group Discussions*
    - Subject Specific Ethical Issues, FFP, Authorship
    - Conflict of Interests
    - Complaints and Appeals: Examples and Fraud from India and Abroad

  B. *Software Tools*
    - Use of Plagiarism Software like Turnitin, Urkund and Other Open Source Software Tools

RPE 06: Databases and Research Metrics
  A. *Databases*
    - Indexing Databases
    - Citation Databases: Web of Science, Scopus etc.

  B. *Research Metrics*
    - Impact Factor of Journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
    - 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.

Chaddah, P. (2018). *Ethics in Competitive Research: Do Not Get Scooped, Do Not Get Plagiarised*. ISBN: 978-9387480865. Available at https://www.researchgate.net/publication/331470963_Ethics_in_Competitive_Research_Do_not_get_scooped_do_not_get_plagiarized

National Academy of Sciences, National Academy of Engineering, and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research* (3rd Ed.). National Academies Press. DOI: 10.17226/12192

Resnik D. B. (2011). What is Ethics in Research & Why is it Important? National Institute of Environmental Health Sciences. Retrieved from https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm

Beall, J. (2012). Predatory Publishers are Corrupting Open Access. *Nature*, 489(7415), 179. https://doi.org/10.1038/489179a

Indian National Science Academy (INSA). (2019). *Ethics in Science Education, Research and Governance*. ISBN: 978-81-939482-1-7

LISR04: AREA OF SPECIALIZATION

Credit Distribution			Total Credits	Internal Marks		Semester Exam	Total Marks
L	P	T	L+P+T	C1	C2	C3	C1+C2+C3
2	0	2	04	20	20	60	100

Based on the faculty members' specialisation in different research domains and research trends in LIS domain, following thrust areas have been identified(but not limited to) as an "Area of Specialization" for the PhD Coursework in the Department.

Course Code	Area(s) of Specialization
LISR04/01	Bibliometrics, Scientometrics, Webometrics, Altmetrics & Citation Studies
LISR04/02	Public Library, Academic Library & Special Library
LISR04/03	Information Use, Information Seeking Behaviour, User Education & User Studies
LISR04/04	Science Communication / Scholarly Communication / Scholarly Publishing
LISR04/05	Open Access, Open Source & Open Learning
LISR04/06	Social Networking Sites & Social Media
LISR04/07	ICT Application in Libraries & Cloud Computing
LISR04/08	LIS Education and Research
LISR04/09	Knowledge Management & Personal Information Management
LISR04/10	Digital Library & E-Resources
LISR04/11	Ontological Studies & Semantic Web
LISR04/12	Disaster Management
LISR04/13	Information System & System Development
LISR04/14	Knowledge Organisation
LISR04/15	Information Literacy & Digital Literacy
LISR04/16	Library Promotion and Marketing

Theory
Unit 1: Study of Subject
- Scope of Subject: Divisions, Sub-divisions, Classification/Structure of the Subject, and Application Areas
- Study of Landmarks: Year and Period of Contribution, Name of Contributors and their Significant Contributions, Title and Year of Publication of the Original Work
- Trend of Research: Growth of Literature on the Subject, Scattering and Application of Information on Research in the Subject and other Disciplines
- Educational Trend: Development of Education in the Subject, Level of Education (UG, PG and Research)

Unit 2: Study of Documentary and Non-Documentary Sources
- Study of Primary Sources: Classical Text Books, Advanced Text Books and Leading Journal/Periodical Publications etc.
- Study of Secondary Sources: Encyclopaedia, Directories, Bibliographies, Biographies, Glossaries, Thesaurus, Terms Dictionary, Manuals, Indexing and Abstracting Periodicals, Annual Reviews etc.
- Institutional Sources: Study of Research Institutes, Specialised Departments, Government Agencies, National/International Agencies involved in Concerned Area/Subject; Conferences (International and National); Research Projects (International and National, Major & Minor)
- Human Sources: Study of Peoples involved in Area/Subject, their Specialties and Works at International, National and Local Level
- Study of E-Resources: Open Access Resources, Databases, E-Journals, E-Books, Indexing and Abstracting Services, Citation Indexes (SCI, SSCI, AHCI) etc.

Tutorial
Unit 3: Proposal/ Report Writing
- Writing a Detailed Report on Literature available on Area of Study
- Finding Problem Statement, Writing of Literature Review, Identifying Research Gaps, Identifying Objectives of the Study and Hypotheses Formulation, Designing Research Methods
- Making of Subject Specific Bibliography
- Practice of Technical Writing Skills
- Participating in Subject Specific Seminar/Conference/Workshops
- Learning of Information Presentation Skills, Seminar Presentation

Unit 4: Computer Literacy
- Learning Effective Use of MS-Word, MS-Excel, MS-Powerpoint
- Learning Online Analysis Tools and Techniques
- Practice of Mendeley, Zotero etc.
- Use of Grammar and Punctuation Tools
- Use of Statistical Tools and Techniques