



BHARATHIAR UNIVERSITY, COIMBATORE – 641 046

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

M.Phil./Ph.D. Library and Information Science

Subject Code	Papers	Name of the Subjects
18LISRC01	PAPER: I	RESEARCH METHODS IN LIBRARY AND INFORMATION SCIENCE
18LISRC02	PAPER: II	EMERGING TRENDS IN LIBRARY AND INFORMATION SCIENCE
	PAPER: III	SPECIAL PAPERS
18LISRS01		BIBLIOMETRICS AND SCIENTOMETRICS
18LISRS02		USERS STUDIES
18LISRS03		INFORMATION COMMUNICATION TECHNOLOGY APPLICATION IN LIBRARY AND INFORMATION SCIENCE

PAPER: I RESEARCH METHODS IN LIBRARY AND INFORMATION SCIENCE

Subject Code : 18LISRC01

Objectives:

- *To identify appropriate research topics*
- *To select and define appropriate research problem and parameters , and*
- *To write a research report and thesis*

Unit – I Basic of Research

Research : Concept, Need & Purpose, Characteristics - Types – Pure and Applied, Action and Inter Disciplinary Research – Historical – Case Study – Experimental etc., - Logic and Scientific method, Literature Search and Review of Literature.

Unit – II Research Design

Research Design: Definition, Types and Characteristics, – Identification, Selection and Formulation of a Research Methods and Research Problem, Formulation of Objectives and Hypothesis.

Unit - III Data Collection Methods

Data Collection – Definition, Types and Relevance —Sampling –Data Sources –Primary, Secondary and Tertiary Data; Data Collection Methods – Questionnaire / Schedule, Observation, Survey etc.,

Unit – IV Data Analysis

Data Analysis : - Data Processing, Analysis and Interpretation– Statistical Tools and Techniques –Measure of Central Tendency, Frequency Distribution, Regression and Correlation; Testing of Hypothesis – ANOVA, Chi-Square and t Test etc., and Statistical packages SPSS etc.

Unit – V Report Writing

Research Report Writing – Types, Structure and Presentation – Article, Thesis and Dissertation,– Style Manual – APA, MLA – Application of IT in Research.

Select Text & References :

- 1.Busha,C.H. (1990). Research Methods in Librarianship. New York: Academic Press
- 2.Slater, M Ed.(1990). Research Methods in Library and Information Science. London: LAP
- 3.Young, Pauline. (1982). Scientific Social Surveys and Research. New York: PHI
- 4.Kothari, C. (1995). Methodology. New Delhi: Eastern Wiley
- 5.Goswami,K (1995). Research Methodology in LIS. New Delhi: Commonwealth,
- 6.Krishna Kumar. (1999). Research Methods in LIS. New Delhi: Har-Anand Publ.

PAPER: II : EMERGING TRENDS IN LIBRARY AND INFORMATION SCIENCE

Subject Code : 18LISRC02

Objectives:

- *To enable the researcher to understand the emerging trends in LIS.*
- *To train the researcher to understand the information retrieval and techniques, and*
- *To develop the skills to manage the Electronic Libraries*
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Unit - I : Basics of Computer

Computer – Concepts, definition, Types of Computer Generations – System Hardware – Input / Output, Operating Systems - Unix –Windows- Linux - Application Software.

Unit - II: Library Automation

Library Automation -Need and Purpose - Merits and Demerits of Library Automation System - Planning and Implementation of Library Automation - House Keeping Operations- Library Automation Packages SOUL, KOHA & e-Granthalaya.

Unit - III: Library Networking

Networking: Need - Purpose - Types - LAN, WAN, MAN, Topologies – Types, Important Networks in India - INFLIBNET, DELNET, AGROCOLA AND MEDLARS.

Unit – IV: Digital Library

Digital Library: Concepts, definition, Need, Design & Development - Issues and Challenges - Digital Resources - Management of Digital Libraries - Intellectual Property Rights in Digital Environment – Digital Library Software – Dspace and Green Stone.

Unit –V: Resource Sharing and Consortia

Resource Sharing – Concepts, Scope and Need – Historical Overview –Resource Sharing methods - Barriers - Library Consortium –Concept, Need and Types - Consortium Initiatives in India – e-Shodh Sindhu, Shodhganga, NDL, NPTL etc.,

Select Texts and References:

1. Rajaraman, V. (2013). Fundamentals of Computers, New Delhi: **PHI**
2. Ravichandra Rao, LK, (2012). Library Automation, New Delhi: Wiley Eastern,
3. Moorthy, T.A. and Jain, S.P.(2009). Network Access to electronic Documents and its copyright Implications, **FID** conference proceedings, New Delhi, INSDOC
4. Iyer, V.K., Management of Library Information services, New Delhi: Rajat Publicaitons.
5. Chowdhury, G.G. (2003). Introduction to Digital Libraries. London: Facet, 2003.

PAPER: III : SPECIAL PAPERS

1. BIBLIOMETRICS AND SCIENTOMETRICS

Subject Code 18LISRS01

Objectives :

- *To Understand the importance of bibliometrics and Scientometrics studies*
- *To Identify the various indicators used in bibliometrics and Scientometrics studies, and*
- *To assess the validity of bibliometrics and Scientometrics Studies*

Unit 1: Basics of Bibliometrics and Scientometrics

Elements of Bibliometrics, Librametrics, Scientometrics, Informetrics, Webometrics – Meaning, Definition, Scope, Evolution and their Applications in LIS

Unit 2: Theories and Laws

Theories and Laws – Lotka’s Law, Bradford’s Law, Zip’s Law, Price Theory and Circulation Theory – Rank and Size Frequency Models.

Unit 3: Citation Analysis

Citation analysis – Definition, Theory of citation, Different forms of citations – Bibliographic coupling – Co-citation – Citation mapping – Co-Citation Proximity Analysis (CPA), Co-word Analysis, Citation Indices (SCIE, A&HCI, SSCI, Scopus , etc)

Unit 4:

Bibliometrics and Scientometrics – Elements and Applications – Scientific Productivity – Growth and Obsolescence of Literature – Indicators: Authorship Pattern, Collaboration pattern, Productivity index – Journal Performance indicators: Journal’s Impact Factor; h-index, g-index, i10 index, etc – Mapping of Science.

Unit 5:

Emerging trends: Altmetrics – Concept, Evolution, and its applications in LIS

Select Texts and References:

1. Baker S L. and Lancaster S W (1991). Measurement and evaluation of library services. 2ed. Information Resources Press : Arlington
2. Carpenter R.L and Vasu E.S. (1979). Statistical methods for librarian, Chicago. LA
3. Donohue, J C. (1990). Understanding scientific literature. A Bibliometric approach. London: MIT Egghe,
4. L and Rousseau R (1990). Introduction to Informetrics: Quantitative methods in library, Documentation and Information Science. Amsterdam, Elsevier
5. Garfield, E (1979). Citation Indexing: its theory and application in science and technology and humanities. New York: John Wiley,

2.USER STUDIES

Subject Code : 18LISRS02

Objectives:

- To know Origin and Development of User Studies
- To know Different methods of User Studies, and
- To know Recent Trends in User Studies

Unit - I - User Studies

User studies: concept – Definition, Types and Methods - Aims and objectives – Need and Importance of user studies -. Major user studies conducted in India - USA - UK.

Unit – II Information Seeking Behavior

Information Seeking Behavior - Concept, Definition and Importance – Models –Wilson, Kublthau, Ellis etc.,

Unit - III User Behaviour

University and college library user behaviour - evolving a theory of user behavior - characteristics having effects of user behaviour - Patterns of user behavior users and their influencing factors - Limitations in behavioral research in librarianship.

Unit – IV User Education

User education: Concepts – definition and need for user education – Aims and Objectives – Planning of user education – problems of user education. Users interaction with documentary resources and non documentary resources for their current information needs.

Unit - V - Evaluation Criteria

Evaluation of user studies: Important features failure analysis - Methodology of user evaluation - Oriented evaluation - purpose of user evaluation.

Further Readings

1. Kumar,PSG. (2006). Use and User Studies. New Delhi: BR Publications.
2. Devarajan. (1987). User Studies. New Delhi: Allied Publishers
3. Kumar, PSG. (2004). Library and Users : Theory and Practice. New Delhi: BR Publications
4. Sridhar, MS. Library Use and User Research. New Delhi: Concept Publishing Co.,
5. Wilson, T.D. (2006). On User studies and Information needs, Journal of Documentation. 62(6), PP 658-670
6. Ellis, David, (1993). Modeling the Information seeking Patterns of Academic Researchers. A grounded theory approach Library Quarterly. 63(4), PP469-486

4. INFORMATION COMMUNICATION TECHNOLOGY APPLICATIONS IN LIBRARY AND INFORMATION SCIENCES

Subject Code : 18LISRS03

Objectives:

- To find out the different purposes of using ICT
- To assess to what extent users are utilized ICT based library resources, and .
- To train digital library management

Unit – I : Introduction to ICT

Information Communication Technology: Concepts, Definition, Need, Scope and Objectives – Application of ICT in LIS.

Unit- II : INTERNET

Internet: Concept, Need - Purpose - Types - Web Technology: www,e-mail, http - Search Engine: Google, Yahoo and Altavista – Web Browser: Chrom, Internet Explore, Mosilafire box and Opera.

Unit - III: Digital Library

Digital Library – Concept, Scope, Need and Purpose, Characteristics, Digital Library Management, Design and Organization of Digital Libraries - Architecture - Protocols - Metadata - Standards. Digital Library Initiatives – Digital Library Initiatives in India – Open Source Initiatives - Open Archive Initiative (OAI).

Unit – IV : Creation of Digital Library

Building the digital library – Digitization – Process and methods – Planning for Digitization – Institutional Repositories – Open Source Software for Digital Library: GSDL and D Space: Future of Digital Libraries.

Unit – V : Library Application Software

Library Application Software: Concept, Need and Purpose – KOHA, SOUL, Green Stone and D Space

Select Tests and References:

1. Ravichandra Rao, I.K, Library Automation, New Delhi: Wiley Eastern,
2. Moorthy, T.A. and Jain, S.P. Network Access to electronic Documents and its copyright implications, FID conference Proceedings, New Delhi, INSDOC
3. Iyer, V.K, Management of Library Information services, New Delhi, Rajat Publications.
4. Jain V.K (2009). Information Technology. New Delhi: Atlantic
5. Tripathi, Aditya and others. (2010). Open Sources Library Solutions. New Delhi: ESS Pubication.