

Department of Library and Information Science

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

I PAPER : I : RESEARCH METHODS IN LIBRARY AND INFORMATION SCIENCE

II PAPER- II : CURRENT TRENDS IN LIBRARY AND INFORMATION SCIENCE

III PAPER : III : SPECIAL PAPER

1. BIBLIOMETRICS

2. INFORMATION SEEKING BEHAVIOR

3. INTRODUCTION TO DIGITAL LIBRARIES

4. INFORMATION TECHNOLOGY (IT)

APPLICATIONS IN LIBRARY AND INFORMATION SCIENCE

PAPER – I : RESEARCH METHODS IN LIBRARY & INFORMATION SCIENCE

Unit – I: Basics of Research

Research : Meaning, Objectives, Characteristics. Types of Research; Pure, Applied, Action Research, Inter-Disciplinary Research – Logic and Scientific Investigation. Research Problem: Identification, Selection and Formulation of a Research Problem. Areas of research in LIS.

Unit – II: Research Design and Scaling Techniques

Research Design – Meaning, importance and Concept. Characteristics of a Good Research Design. Types of Research Design: Exploratory, Case Study, Delphi Method-Descriptive, Diagnostic and Experimental. Components of Research Design, Scaling Techniques.

Unit- III: Data Collection Methods

Data Collection: Primary and Secondary Data Sources. Tools of Data collection: Schedule, Interview, and Questionnaire -Observation – Survey-Sampling Techniques. Precautions in the Use of Secondary Data

Unit – IV: Data Analysis

Data Analysis: Analysis and Interpretation – Statistical Tools and Techniques – Measure of Central Tendency – Content Analysis, T-Test, ANOVA, Chi-Square Test - Regression and Correlation.

Unit –V: Report Presentation

Report Writing - Utilization and Presentation of Diagrams, graphs and tables. Role of Bibliography in Research.

Books Recommended for Further Readings

1. Devarajan, G. Research in Library & Information Science. New Delhi; Ess Ess, 2002
2. Kothari, C. R. Research Methodology – Methods & Techniques. New Delhi; Vishwa Prakasam., 1996.
3. Krishan Kumar. Research Methods in Library and Information Science, New Delhi Vikas; 1992

4. Panda, B. D. Research Methodology for Library Science. New Delhi; Anmol, 1997.
5. Ravichandra Rao, I.K, Quantitative Methods for Library and Information's Science, New Delhi: Wiley Eastern
6. Santhosh Gupta. Research Methodology and Statistical Techniques. New Delhi; Deep and Deep, 2000
7. Chowdhury, G.G. Introduction to Digital Libraries. London: Facet, 2003.
8. Deegan, Merlyn and Tanner, Simon. Digital Futures: Strategies for the Information Age. London: Facet, 2001.

PAPER- II : CURRENT TRENDS IN LIBRARY & INFORMATION SCIENCE

Unit – I : Basics of Computer

Historical Development of Computer: Types of Computer Generations – Operating Systems – DOS, Windows- Unix- Input /Output Devices- Systems Hardware and Software – System Software and Application Software .

Unit – II: Library Automation

Library Automation –Need for automation – Social, Economical and Psychological Implications of Library Automation System - Study and Planning for Automation – Computerization of Various House Keeping Operations – A Study of Some Important Library Automation Packages SOUL, LIBSYS etc,

Unit- : Networking

Networking: Need - Purpose – Types – LAN, WAN, MAN, Topologies — Important Networks in India – NICNET, INDONET, INFLIBNET, ERNET, DELNET etc.

Unit IV– Digital Library

Digital Library Initiatives - Digitization – Digital Library Development – Issues Involved – Electronic Resources – Access to Web Based Digital Resources – Electronic Publishing, E-mail and CD ROM Technology. Strategic Management of Digital Libraries – Challenges for Digital Library – Intellectual Property Rights in Digital environment –

Unit V– Resource Sharing and Consortia

Resource Sharing - Historical Development Need for – Resource Sharing. Tools for Resource Sharing – Barriers – Library Consortium –Concepts –Need- Types of Consortium- Consortium Initiatives in India - INDEST Consortium and UGC-Infonet Consortium

Books Recommended for Further Readings

1. Rajaraman, V. Fundamentals of Computers, New Delhi: PHI
2. Ravichandra Rao, I.K, Library Automation, New Delhi: Wiley Eastern,
3. Moorthy, T.A. and Jain, S.P. 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. Introduction to Digital Libraries. London: Facet, 2003.
6. Pedley. Digital Copyright. Ed2. London: Facet, 2005
7. NACCIN Seminar Volume 2007-2008.

PAPER : III : SPECIAL PAPER

1. Bibliometrics

Unit – I

Origin and development of Bibliometrical studies –Nature and scope of Bibliometrics –Historical development Librametry to Scientometrics sources of Bibliometric data.

Unit – II

Identifying and defining literature – study of the structure of documents – Authorship studies, Form of documents – types of communication in primary literature.

Unit – III

Bibliometric Laws Describing literature – Document relationship studies – Citation analysis, Co-citation and bibliographic coupling, mapping the structure in science.

Unit – IV

Size and growth of literature –relationship, associations and groupings – use of documents for evaluation – Assessment of authors, documents, countries and Institutions.

Unit – V

Testing the effectiveness of abstracting and Indexing services citation index – Their structure, use and methods of compilation – Advancement and research in bibliometrics.

Books

1. Ashwini Tiwari, Bibliometrics, Informetrics and Scientometrics: Opening New Vistas of Information Science, RBSA publishers, Jaipur, 2006.
2. Devarajan.G, Bibliometric Studies, Ess ess Publications, 1997
3. Gayatri mahapatra, Bibliometric studies, crest publishing House, New Delhi , 2000

2. INFORMATION SEEKING BEHAVIOR

Unit-I

Information Seeking Behaviour – concept, Models – Information Needs – Types of Users.

Unit-II

User studies: Its basic concept – Definition and Categories – Aims and objectives – Importance of user studies – Need for conducting user studies. Major user studies conducted in India – USA – UK.

Unit – III

University and college library user behaviour – evolving a theory of user behaviour – characteristics having effects of user behaviour – patterns of user behaviour users and their influencing factors – Limitations in behavioural research in librarianship.

Unit

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IV

User needs and user education: Its basic concept – definition and need for user education – Aims and objectives – planning of user education – problems of user studies and user education. Users interaction with documentary resources and non documentary electronic resources for their current information needs.

Unit –V

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

3. INTRODUCTION TO DIGITAL LIBRARIES

Unit – I

Concept of Digital Libraries - Transition of libraries from traditional to digital:-
Definitions, Characteristics, Theoretical Fundamentals, merits, demerits and challenges

Unit – II

Digital Library Management - Design and Organization of Digital Libraries:
Architecture – Protocols – Metadata – Standards – SGML, Z39.50 .

Unit – III

Digital Resources: Nature and Management –. Digital Library Evaluation

Unit – IV

Overview of Major Digital Library Initiatives- Digital Library Initiatives in India,
- Open Source Initiatives: Open Archive Initiative (OAI)

Unit – V

Building the digital library - Digitization – process and methods – Planning for
Digitization - Institutional Repositories- Open Source Software for digital libraries:
GSDL - DSpace – EPrint.- Future of Digital Libraries

Reference Books

1. Chowdhury, G.G. Introduction to Digital Libraries. London: acet, 2003.
2. Leona, C. Simon, Shaw and Andrew Prescott. Towards the Digital Library. London: LA, 1998.
3. Deegan, Merlyn and Tanner, Simon. Digital Futures: Strategies or the Information Age. London: Facet, 2001.
4. Gorman, G.E. The Digital Factor in Information and Library Services. London: Facet, 2002.
5. Lankes, R. D. Implementing Digital Reference Services: Setting Standards and making it real. London: Facet, 2002.
6. Lee, Stuart D. Digital Imaging: A practical; Handbook. London: Facet, 2000.
7. International Conference on Digital Libraries. ICDL 2004. TERI, New Delhi. 2004.
8. Upadhaya, J.L. Information Retrieval and Digital Libraries New Delhi, Shree Publishers and Distributors, 2004
9. Vijay Lakshmi & S.C.Jindal Digital Libraries V 1,V2, & V3 Delhi, Isha Books, 2004.

4. INFORMATION TECHNOLOGY (IT) APPLICATIONS IN LIBRARY AND INFORMATION SCIENCE

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Resource Sharing - An Historical Developments – Resource Sharing Tools – Resource Sharing Technology to crossing the Hurdles – Barriers – Library Consortium –Concepts –Need- Types of Consortium- Consortium Initiatives in India - INDEST Consortium and UGC-Infonet Consortium

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11. Iyer, V.K., Management of Library Information services, New Delhi, Rajat Publications.
12. Chowdhury, G.G. Introduction to Digital Libraries. London: Facet, 2003.
13. Pedley. Digital Copyright. Ed2. London: Facet, 2005
