

**25LIS140T : Research Methodology**

**Course Objectives**

1. To infer the need and purpose of various research methods
2. To memorize the knowledge on Research design, techniques and tools
3. To enumerate the skills on data analysis and interpretation of Data in SPSS
4. To impart the value of research in librarianship
5. To educate students about the various methods and techniques of research

**Course Outcomes (COs)**

1. Understand the definition, need and purpose of various research methods
2. Get the knowledge on Research design, techniques and tools
3. Gain the skills on Data analysis and Interpretation of Data in SPSS
4. Apply the knowledge in understanding practical problems
5. Analyse the Various Concepts to understand them through case studies

**Articulation Matrix**

*(Program Articulation Matrix is formed by the strength of correlation of COs with POs and PSOs. The strength of correlation is indicated as 3 for substantial (high), 2 for moderate (medium) correlation, and 1 for slight (low) correlation)*

CO/PO/PSO	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2
CO1	3	2	1	-	-	-	-
CO2	3	2	1	-	-	-	-
CO3	1	3	2	1	1	2	-
CO4	1	3	2	1	1	-	-
CO5	1	3	2	1	1	2	1

High-3 Medium-2 Low-1

**UNIT I : Research: Introduction**

**12 Hours**

Research: Meaning, Definition, Need and Characteristics; Types of Research: Basic, Applied, Individual, Collaborative research and Inter disciplinary.

**UNIT II : Research Methods**

**12 Hours**

Methods of Research: Historical, Case study, Experimental, Survey and Scientific; Spiral of Scientific method.

**UNIT III : Research Planning**

**12 Hours**

Research Problem: Identification and formulation, Types and Components; Hypothesis: Concept, usefulness, quality, types and formulation; Literature Survey and its use: Print, Non-print, Electronic Sources; Synopsis: Concept and Essential Components.

**UNIT IV :Research Design and Techniques**

**12 Hours**

Research Design: Concept, need and purpose, Attributes, components ; Collection of Data: sampling, Field Work, Questionnaire, Interview and Observation; Content Analysis ; Sampling Techniques

**UNIT V : Research Report and Ethics****12 Hours**

Presentation of data: Tables, Diagram, Graphs; Report writing: Structure and Controls; Guidelines for research reporting; Citation and Referencing Style; Research Ethics and Plagiarism

**Reference (s) :**

1. Busha, Charlesh H. and Harter, Stephen P.(1980). Research methods in Librarianship:Techniques and Interpretation. Orlando, Academic Press.
2. Busha, Charlesh H.(1967). Research methods. *In* Encyclopedia of Library and InformationScience. (Vol. 25, pp254-293.
3. Krishan Kumar.(1992). Research methods in Library & Information Science. New Delhi,Vikas.
4. Young, P.V. and Schmid,C.F.(1984). Scientific Social Surveys and Research. New Delhi,Prentice Hall of India.
5. Goode, William J. and Hatt,Paul K.(1986). Methods in Social Research. New Delhi,McGraw Hill.
6. Kothari, C.R.(1990). Research Methodology: Methods and techniques. (Ed.2). New Delhi,VishwaPrakashan.
7. Ghosh, B.N.(1982). Scientific methods and social research. New Delhi, Sterling Publication.
8. RavichandraRao, I.K.(1985). Quantitative methods for LIS. New Delhi, Wiley Eastern.
9. Wilkinson, T.S. and Bhandarkar, P.L.(1979). Methodology and Techniques of SocialResearch. Mumbai, Himalaya Publication.
10. Kothari, C.R.(1984). Quantitative techniques. (Ed. 2). New Delhi, Vikas Publication.

**Master of Library & Information Science**  
**Semester - II** **L-4 T-0 P-0 C-4**  
**25LIS150T : Information Communication Technology in Library Information**  
**Centers ( Theory )**

**Course Objectives**

1. To study the basic of Information and Communication Technology
2. To understand the value of Institutional repositories for library.
3. To understand the importance of emerging technologies in library.
4. To introduce the students with the basics of library administration & management
5. To create understanding about financial management

**Course Outcomes (COs)**

1. The understanding about implementation of library automation software and in achieving library security with the use of latest ICTs technique;
2. The use of communication and networking technologies;
3. The knowledge about database management, data ware housing, data mining and other artificial intelligence technologies.
4. The current trends in library networks operational in India.
5. The use of communication and networking technologies in developing library systems and services;

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CO5	1	3	2	1	1	2	1

High-3 Medium-2 Low-1

**UNIT I : Web Technologies in Libraries** **12 Hours**

Implication of WWW on Library Websites, Web OPACs; Web 2.0 and Web 3.0 : Features and Functions; Web Directories, Subject Gateways, Library Portals, etc ; Weblogs ( Blogs ), Podcasts, RSS Feeds, Instant Messaging, Wikis, Flickr, etc

**UNIT II : Integrated Library Automation and Networking Software** **12 Hours**

Open Source Library Software and Applications; Web based Library Management Software  
Library Software Securities Parameters; Virtual Library

**UNIT III : Multimedia and Institutional Repositories** **12 Hours**

Multimedia Applications in Libraries; Image Creation Using photoshop and Core /Draw, etc:Institutional Repositories: Greenstone Digital Library , D space, and E – Prints, etc

**UNIT IV: Introduction of Networks** **12 Hours**

Types of Networks : Network Components, Categories, LAN Standards and Inter

Network;Wireless Networking and Emerging Networking Technologies;Data Networks: Integrated Services Digital Network ( ISDN ), Digital Subscribers Line ( DSL), synchronous Transfer Mode ( ATM ). Etc; Network Software : Network Operating Systems, Domain Name System and Network;OSI Network Model and TCP/IP Reference Model

**UNIT V: Emerging Technologies in Libraries** **12 Hours**  
RSS Feeds Technology and Libraries; Library Security Technology : RFID, Barcode, Smart Card and CCTV, etc; Video Conferencing and Audio Conferencing;Functional Requirements for Bibliographic Records; Digital Content Management System; Federated Search and Multimedia Databases Search; Protocols : Z39.50 Standards for Retrieval and OAI – PMH; Artificial Intelligence and Libraries; Expert Systems in Libraires

**Reference (s) :**

1. BRADLEY (Phil). How to use web 2.0 in your library. 2007. Facet Publishing, London.
2. CLYDE (Laurel). Weblogs and libraries. 2004. Chandos Publishing, Oxford.
3. EVANS (Woody). Building library 3.0: issues in creating a culture of participation. 2009. Chandos Publishing, Oxford.
4. GRIFFITHS (Peter). Managing your internet and intranet services: the information professional's guide to strategy. Ed.2. 2004. Facet Publishing, London.
5. JANCZEWSKI (Lech). Internet and intranet security management: risks and solutions. 2000. Idea, Hershey.
6. KROSKI (Ellyssa). Web 2.0 for librarians and information professionals. 2008. Neal Schuman Publishers, New York.
7. LIU (Jia). Metadata and its applications in the digital library: approaches and practices. 2007. Libraries Unlimited, Westport.
8. PRIMARY RESEARCH GROUP STAFF. Academic library websites benchmarks. 2008. Primary Research Group, New York.
9. VINCE (J). Introduction to virtual reality. 2004. Springer, London.
10. WISE (Richard). Multimedia: a critical introduction. 2000. Routledge, London.

**25LIS150P : Information Communication Technology in Library Information Centers  
( Practice )****Course Objectives**

1. To provide basic concepts of Designing Website and Navigation tools
2. To understand the importance of audio video conferencing advanced searching techniques
3. To give the practical exposure for Digital library software.

**Course Outcomes (COs)**

1. Understand, identify, and explore the different types of information sources.
2. Different types of information sources, e-books, databases.
3. Understand the virtual reference service and translation services
4. Learn documentary and non-documentary sources and different types of information sources
5. Understand the concept of user education

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High-3 Medium-2 Low-1

**UNIT I: Website Designing and Navigational Tools****12 Hours**

Designing Static and Dynamic Library Websites ; Designing Mobile Websites; Developing Web Directories, Subject Gateway and Library Portals; Designing and Developing Library Blogs, RSS Feeds, Wikis and Flickr, etc; Image Creation using Photoshop, CorelDraw, etc.

**UNIT II : Integrated Library Management Systems and Institutional Repositories 12hours**

Installation and configuration, Hands on functional modules of an integrated; Library Management system; Web based library management software; Web Library modules & Metadata creation ; Customization of Greenstone Digital Library Software

**UNIT III: Audio and Video Conferencing****12 Hours**

Audio conferencing & Video conferencing

**UNIT IV: Advanced Searching and Metadata Creation** **12 Hours**

Federate search; Creation of Metadata

**UNIT V: Data Communication Technology** **12 Hours**

Data Communication: Concept, Definition ; Protocols and standards TCP/IP, FTP, HTTP, OSI Concept, Web Server & Internet Security

**Reference (s) :**

- 1.BATES (Chris). XML in theory and practice. 2003. John Wiley, Chichester.
- BRADLEY (Phil). How to use web 2.0 in your library. 2007. Facet Publishing, London.
- 2.COX, (Christopher N). Federated search: solution or setback for online library services. 2006. The Haworth Press, Philadelphia.
- 3.DONNELLY (V). Designing easy-to-use websites: a hands-on-approach to structuring successful websites. 2000. Addison-Wesley, Boston.
- 4.LOWERY (Joseph W). Dreamweaver MX bible. 2002. Wiley Publishing, Indianapolis.
- 5.LYNCH (P J) and HORTON (S). Web style guide: basic design principles for creating web sites. Ed.3. 2009. Yale University Press, London.
- 6.McCLELLAND (Deke) . Photoshop 7 bible. 2003. Wiley Publishing, New York.
7. SIMMONS (Curt). Microsoft office front page 2003 bible with CDROM. 2003. Wiley Publishing, Indianapolis.
- 8.ULLMAN (Larry). Building a web site with ajax: visual quickpro guide. 2007. Peachpit Press, Berkeley.
- 9.WITTEN (Ian H), BODDIE (Stefan) and THOMPSON (John). Greenstone digital library user's guide. 2006. New Zealand Digital Library Project, New Zealand.

**25LIS160T : Academic Library System**

**Course Objectives**

1. To infer the basic objectives, growth and development of academic libraries in India, UK and USA
2. To analyze the overview of higher education in India,
3. UGC its powers and functions and the role in the development of academic libraries
4. To study the academic library services.
5. To understand the concept, objectives, types and functions of the Academic Library System.

**Course Outcomes (COs)**

1. Understand academic library system and its types, functions and services
2. Create the collection for academic libraries with help of collection development policies.
3. Analyse the financial requirement for managing the academic libraries.
4. Evaluate the role of UGC in promoting libraries in academic and higher learning institutions.
5. Create a consortium for networking the academic libraries.

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CO5	1	3	2	1	1	2	1

High-3 Medium-2 Low-1

**UNIT I : Academic Libraries and their Development** **12 Hours**  
 Objectives and Functions; History and Development of Libraries with Special Reference to India; Role of Libraries in Formal and Non-Formal Education System; UGC and its Role in the Development of College and University Libraries

**UNIT II: Collection Development and Management** **12 Hours**  
 Periodicals, Conference Literature, Grey Literature and Government Publications; Non-Book Materials; Electronic Resources and Online Databases

**UNIT III: Library Organization and Administration** **12 Hours**  
 Organizational Structure; Staff Manual, Library Surveys, Statistics and Standards, etc.

**UNIT IV: Information Services** **12 Hours**  
CAS, SDI, Abstracting and Indexing Services; Library Bulletin, Newspaper Clipping Services; Computerized Services; Resource Sharing and Networking: INFLIBNET, UGC-INFONET Digital Library Consortium

**UNIT V: Financial and Human Resource Management** **12 Hours**  
Determination of Finance, Sources of Finance; Types of Budget; Nature, Size, Selection, Recruitment, Qualification and Training; Responsibilities and Duties

#### **Reference (s)**

- 1 BAKER (David), Ed. Resource management in academic libraries. 1997. Library Associations, London.
- 2 BROPHY (Peter). The academic library. 2000. Library Association, London.
3. BUDD (J M). The academic library: the context, its purpose and its operation. 1988. Libraries Unlimited, London.
4. CHAPMAN (Liz). Managing acquisitions in library and information services 2001. Library Association, London.
5. DOWLER (L) Ed. Gateways to knowledge: the role of academic libraries in teaching, learning and research. 1998. The MIT Press, London.
6. JORDON (Peter). The academic library and its users. 1998. Gower Publishing Limited, London.
7. LINE (Maurice B), Ed. Academic library management. 1990. Library Association, London.
8. RANGANATHAN (S R). School and college libraries. 1942. Madras Library Association, Madras.
9. WEBB (Sylvia P). Personal development in information work. Ed 2. 1991. Aslib, London.
10. WHITE (Carl M). Survey of university of Delhi. 1965. Planning Unit, University of Delhi, Delhi.

**25LIS170P Internship & Study Tour**

**Course Objectives**

1. To increase the knowledge and skills of recent graduates
2. To upgrade their skills in a specific area of information services
3. To expose the students with the real working environment of a library operation
4. To train them in preparing the state – of – the art report on the library

**Practical Contents**

1. **Study Tour Report** : Students has to present study tour report
2. **Internship** : At least one library has to be visited for 15 working by the students under the supervision of concern librarian
3. Students have supposed to complete the internship immediately after the end of semester I and before the commencement of semester II
4. Students have to submit the internship report duly signed by the concern librarian

Note : Out of 100 , 60 marks for report based on internship & 40 marks for study tour report