

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**Syllabus for Pre-Ph. D Examination**  
**Library Science**

<b>PAPER – II</b>		<b>Subject Code</b>
<b>S. No</b>	<b>Subject</b>	
1	Academic Library System	1418101
2	Special Library System	1418102
3	Knowledge Society	1418103

<b>PAPER - III</b>		<b>Subject Code</b>
<b>S. No</b>	<b>Subject</b>	
1	Digital libraries	1418201
2	Library Automation and Networking	1418202
3	Electronic Resource Management ( ERM )	1418203
4	Information Literacy	1418204
5	Information Communication and Technology in LICs	1418205
6	Management of Library and Information centers	1418206
7	Bibliometrics, Scientometrics and webometrics	1418207
8	Knowledge Management	1418208
9	Information Seeking Behaviour, user and User Studies	1418209

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**Library Science**

**Pre-PhD-Courses**

**PAPER – II**

**ACADEMIC LIBRARY SYSTEM**

**Subject Code : 1418101**

- Unit 1:** Higher education and academic libraries - Landmarks in Education since 19th century in India; Academic Library as a support system in formal and informal system of education.  
UGC and its role in the development of academic libraries
- Unit 2:** Academic Library organization and administration - organizational structure; Library Governance – authority, Committee
- Unit 3:** Organization and management of various sections of academic libraries -  
Human Resource Management  
Financial management
- Unit 4:** Collection development and management – Print and electronic books and serials  
Technical processing in electronic environment; copy cataloguing – World Cat; IndCat; Dewey Browser etc.  
Planning and organization of information services - web based
- Unit 5:** Resource Sharing and Networking – INFLIBNET  
Library consortia; UGC Infonet – its functions and services N-LIST Programme

**Books**

1. Brophy, Peter. The academic library. 2000. Library Association, London
2. Line, Maurice B. Ed. Academic Library Management. 1990. Library Association, London.

**References:**

1. American Association of School Librarians. Standards for school library programmes. 1969. ALA, Chicago (Latest).
2. American Library Association. Personnel organization and procedure: A manual suggested for use in college and university libraries. Ed. 2. 1978. ALA, Chicago.
3. Baker, David, Ed. Resource management in academic libraries. 1997. L.A.London.
4. Balakrishnan, Shyama & Paliwal, P.K. Academic Library automation
5. Bavakuty, M. Libraries in Higher Education. ESS ESS Pub., 1988
6. Bhaskara Rao, P. Information Networks and Resource sharing. Delhi, Reliance, 1998
7. Biddiscombe, Richard, Ed. The end – user revolution. 1996. Library Associations, London.
8. Brophy, Peter. The academic library. 2000. Library Association, London.
9. Chapman, Liz. Managing acquisitions in library and information services 2001. Library Association, London.
10. Deshpande, Neela J, & Patil, S.K. University and college Librarianship in India in the 21<sup>st</sup> century: Prof. S.G. Mahajan Festschrift.
11. Gelfand, M.A. ELFAND (M A).University libraries for developing countries. 1968. UNESCO, Paris.
12. Jordon, Peter. The academic library and its users.1998. Gower, London.

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**SPECIAL LIBRARY SYSTEM      Subject Code : 1418102**

**Unit 1:** Special library – concept, evolution, scope, characteristics, functions

**Unit 2:** Human resource management: education and training-related standards  
Financial management – budgeting

**Unit 3:** Collection development and resource management – policies and guidelines for books, periodicals, reports, patents, standards and other special materials; Audio visual, electronic and digital sources

**Unit 4:** Planning and organization of information and dissemination services – CAS, SDI;  
Information consolidation and repackaging; technical information services; document delivery services;

**Unit 5:** Resource sharing and networking; Consortia models for special libraries in India

**Books:**

1. Ashworth, Wilfred and Batten, W. E. Handbook of Special Librarianship and Information work London :Aslib, 1975
2. Ashworth, Wilfred. Special Librarianship. Munich : Bingley, 1979

**References**

1. Chapman, Liz. Managing acquisitions in library and information services. 2001. Library Associations; London.
2. Hennon, P and Whitman, J.R. Delivering satisfaction and service quality: A customer-based approach for libraries. Chicago, A.L.A., 2001.
3. Kumar, P.S.G. Agricultural librarianship. New Delhi, B.R. Pub., 2008
4. Kumar, P.S.G. Business / Industrial librarianship. New Delhi, B.R. Pub., 2008
5. Raitt, David, *Ed.* Libraries for the new millennium. 1997. Library Association, London.
6. Renuka, P. Library and Information Science in Agricultural Education, Research and Extension. New Delhi, Akansha Pub., 2009
7. Sasikala, C. Industrial information System. Reliance Pub., 1994
8. Scammel, A. W. Ed. Handbook of special librarianship and information work. Rev. ed. 7. London, Aslib, 1997.



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**Books**

1. Van Weert, Tom J. Education and the knowledge society: information Technology for Human development. The Netherlands: Kluwer ,2005
2. Jensen, Karen and others. Professional Learning in the Knowledge society. The Netherlands :Sense, 2006

**Selected Readings**

1. Barry, Smith Ed. (2007). Liberal education in a knowledge society, New York: Cambridge University Press.
2. Choo, W.C. et al. (2000). Web work: Information seeking and knowledge work on the World Wide Web. London: Kluwer.
3. Kuhethau, C.C. (1993). Seeking meaning: A process approach of library and information services. New Jersey: Ablex.
4. Stephens, D.W. and Krebs, J.R. (1986). Foraging theory. New Jersey: PUP.
5. National Knowledge Commission (2007). Libraries, Gateways to Knowledge: A roadmap for Revitalization. <http://knowledgecomission.gov.in>
6. Marquis de Condorcet (1796). Outlines of an human view of the progress of human mind. Dublin: John Chamlers.
7. Van Doren, Charles A. (1991). A history of knowledge: The pivotal events, people, and achievements of world history, New York: Ballantine Books.
8. Venkatasubramanian, K. (2003). Transformation of India as a Knowledge Superpower: Strategy for action. New Delhi: Vikas.

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**Paper III Research Area**

**(Select one Subject relating to your research area)**

1. Digital libraries
2. Library Automation and Networking
3. Electronic Resource Management (ERM)
4. Information Literacy
5. Information Communication and Technology in LICs
6. Management of Library and Information centers
7. Bibliometrics, Scientometrics and webometrics
8. Knowledge Management
9. Information Seeking Behaviour, user and User Studies

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**DIGITAL LIBRARIES**

**Subject Code : 1418201**

**Unit 1:**

Digital Library –Definition, evolution; nature and scope; Types - Digital Library Initiatives – an overview

**Unit 2:**

Digital library technologies – Digital data formats  
Digital representation and compression - Digital library software Open source software – Basic features of Fedora, GSDL, E-Prints, DSpace

**Unit 3:**

Digitization process  
Selection of material;  
Copyright and licensing : Intellectual Property Rights  
Preparation / curation  
Image capturing and production  
Creation of metadata, Metadata Standards

**Unit 4:** Digital libraries access

User interfaces – tools and techniques  
Digital Rights Management  
Data security and privacy

**Unit 5:** Management of digital libraries

H.R. needs for digital libraries  
Financial management  
Digital preservation and archiving  
Evaluation of digital libraries

**Text Books**

1. Chowdhary,GG. Introduction to Digital Libraries, London : Facet, 2003
2. Deegan, Merlyn and Tanner,Simon. Digital Features ; Strategies for the Information Age London, Facet, 2001

**References :**

1. Balakrishnan, Shyama & Paliwal, P.K. Library Digital Technology. Delhi, Anmol, 2001

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**Library Science**

2. Brogan, Martha L. A survey of Digital Library Aggregation service. Washington, Digital Library Federation, 2003
3. Brogan, Martha L. Contexts and Contributions: Building the distributed library. Washington, Digital Library Federation, 2003 25
4. Deegan and Tanner. Digital Futures. London, L.A., 2002
5. Ganguly, R.C. Digital libraries: Challenges and prospects. Delhi, Isha books, 2007
6. Hughes, Lorna M. Digitizing Collections: strategic issues for the information manager. Newyork, Neal Schuman Pub., 2004
7. Iorna and Hughes. Digitizing Collections. London, Facet, 2004
8. Pedley, Paul. Digital Copyright. 2nd ed. London, Facet, 2009
9. Singh, Ram Shobhit. Encyclopaedia of digital libraries. 2 Vols, Vol.1&2. New Delhi, Anmol Pub, 2008

**LIBRARY AUTOMATION AND NETWORKING**

**Subject Code : 1418202**

**Unit 1:**

Library automation-planning and implementation - Selection of hardware and Software- Specifications

**Unit 2:**

Automation and networking of Library Housekeeping routines- Acquisition, Cataloguing, Circulation, Serials control, Information Retrieval and Services, Office Management

**Unit 3:**

Types of Libraries : automated, hybrid, digital and virtual libraries - Databases –

**Unit 4:**

Networks – topologies; types

Networking of libraries in different environments - LAN, WAN, Internet, intranet;

Data security in automated and networked environment

**Unit 5:**

Online databases and web resources – searching and retrieving information;

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Websites and blogs for librarians; development of Subject gateways

**Text Books**

1. Haravu, L.J. Library Automation – design, principles and practice. New Delhi, Allied, 2004.
2. Kumar, P.S.G. Information Technology: Applications (Theory & Practice (paper XI and XIV of UGC Model Curriculum). Delhi, B.R.Pub., 2004
3. Ravichandra Rao, IK. Library Automation, New delhi : Wiley Eastern,2004

**References**

1. Agarwal, Vibhuti. Library Networking: Challenges & Opportunities. Delhi, Rajat Pub., 2000
2. Arunima Baruah ed. Library Database Management. Delhi, Gyan Books, 2002
3. Bradley, Phil. World Wide Web: How to Design and construct Web pages. 2 nd edition. London, Europa Publications Ltd., 2000
4. Chellis, James, Charles Perkins, Matthew Strebe. Networking Essentials: MCSE Study Guide. BPB Pub., 1998
5. Chopra, Y.L. & Chopra, Mamta (ed). Challenges before Library and Information science new Millennium. Delhi, Ess Ess, 2001
6. Elemesri and S. Navathe. Fundamentals of Database System. Delhi, Dorling Kindersley, 2008
7. Gopal, Krishan. Technological future of Library and Information Science. Delhi, Authors Press, 2001.
8. Kashyap, Madan Mohan. Computer based library systems designing techniques. New Delhi, Sterling, 1999
9. Kochtanek and Matthews. Library Information Systems. Connecticut, Libraries Unlimited, 2004
- 10.** Somasekhara Rao and others. Eds. Advances in Library and Information Science Festschrift in honour of Dr Sai Ramesh). Visakhapatnam, Sai Pub., 2008

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**ELECTRONIC RESOURCES MANAGEMENT (ERM)**

**Subject Code : 1418203**

**Unit 1:**

Electronic resources – concept and evolution. Types & nature of electronic resources

**Unit II:**

Collection Management in Libraries - the Organizational issues. Collection Development Policies - guidelines for electronic sources

**Unit III:**

Acquisition of Electronic Resources- Selection, Licensing Policies, Agreements and Access through IP or User name, access rights

Financial management; problems in organization and access

**Unit IV:**

Library Consortia, e Journal Consortia – development trends and initiatives in India.

Inflibenet – Infonet - N-list programme

**Unit V:**

Performance indicators for electronic resources management. Evaluation

Criteria – Training Library Professionals – usage statistics

**Text Books**

1. Sharma, Pandey S.K. Electronic media and Library Information Technology (Enc. Of Library Systems and Networks series). New Delhi, Anmol, 2000

**References**

1. American Library Association. Fundamentals of collection development and management. Chicago, A.L.A., 2004
2. Jenkins, Clare and Morley, Mary Ed. Collection Management In Academic Libraries, Bombay, Jaico Publishing House, 1996.
3. Colman, Michael. Collection Management Handbook. New York, Wiley John and Sons, 2003
4. Evans, G. Edward. Developing Library and Information Centre Collections, with the assistance of Margaret R. Zarnosky , 4 ed, Colorado, Libraries Unlimited a division of Greenwood Publishing Group, 1999

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**INFORMATION LITERACY**

**Subject Code : 1418204**

**Unit1:**

Information literacy – Meaning, definition, objectives and Importance  
Information Literacy and User Orientation programmes  
Information literacy in an information society  
Information literacy and lifelong learning

**Unit 2:**

Information literacy – Effect on education  
Information literacy programmes – In schools and higher education institutions  
including distance education

**Unit 3:**

Information literacy models – Features and examples  
Instructional techniques and Methods  
ILP and technology

**Unit 4:**

Information literacy standards and guidelines – ACRL, ALA, IFLA,  
ILP – Online resources –PRIMO (Peer Reviewed Instructional Materials Online  
database) of ALA – Purpose and scope

**Unit 5:**

Information literacy programmes – Planning and implementation – Issues  
Involved, - Collaboration with Academics, Administration and Public Information  
literacy curriculum – Components  
Assessment evaluation of information literacy programmes

**Text Books**

1. Blanchett, Helen. A guide to teach Information Literacy. London, Facet, 2010
2. Corral, Sheila. Information literacy through inquiry. London, Facet, 2010

**References :**

1. A.L.A. Final Report of the A.L.A. Presidential Committee on information Literacy. Chicago, A.L.A., 1989
2. Devine, Jane. Going Beyond Google: The invisible web in learning and teaching. London, Facet, 2009
3. Godwin, Peter and Parker, Jo. Eds. Information literacy meets Library 2.0. London, Facet, 2008

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**Library Science**

4. Martin, Allan and Rader, Hannelore. Information and IT Literacy: Enabling learning in the 21st century. London, Facet, 2003
5. Information Age. V 3 ( 3 ) July 2009
6. Proceedings of the National Seminar on Information Literacy for Higher Education, January 29-30, 2007. Organized by Dept. of Library and information Science, University of Madras

**INFORMATION AND COMMUNICATION TECHNOLOGY**

**Subject Code : 1418205**

**Unit 1:**

Information Technologies - Definition, scope, components - Information technology applications to LICs

**Unit 2:**

Components of the computer – hardware – CPU; Input/Output devices; -Internal and external storage devices

**Unit 3:**

Computer Software - types

System software – WINDOWS, LINUX

Application software – M S Office, DBMS

**Unit 4:**

Internet : Historical Development – types of connectivity – web resources 0- web portals – browsers – search engines – internet tools - FTP

**Unit 5:**

Communication Technology – Definition, evolution, trends

Networking – basic concepts

Communication media – wire pairs, Coaxial cables, optical fiber, Satellite, VSAT; Band width;

**Text Books :**

1. Dhiman, A.K. Basics of Information Technology for Library and Information Scientists. 2 Vols., Delhi, Ess Ess, 2003
2. Kumar, P.S.G. Information Technology: Basics: (Paper IV of UGC Model Curriculum). Delhi, B.R.Pub., 2003

**References**

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### **Library Science**

- 1 Balakrishanan, Shyama & Paliwal, P.K. Current Scenario of Information technology. Delhi, Anmol, 2001
1. Balakrishanan, Shyama & Paliwal, P.K. Information Technology for the Next Millennium. Delhi, Anmol, 2001
2. Brophy, Rowley. The basics of information systems. London, Library Association, 1996.
3. Carter, Roger. Information Technology Handbook. London, Heinemann, 1997 5.
4. Ferris Jeffrey A. WINDOW 2000: Development and desktop management. Pearson Education, New Riders, 2000.
- 6 Mahapatra, M. and Ramesh, D.B. Information Technology Applications in Libraries: A text book for Beginners. Bhubaneswar, Reproprint, 2004
7. Microsoft Corporation. Microsoft Visual C++ 6.0 MFC Library Reference – Part 1 Vol.1. Washington, Microsoft Press, 1998.
8. Microsoft Corporation. Microsoft Visual C++ 6.0 MFC Library Reference – Part 2 Vol.2. Washington, Microsoft Press, 1998.
9. Microsoft Corporation. Microsoft Visual C++ 6.0 RUN - TIME Library Reference – Vol.4. Washington, Microsoft Press, 1998.

## **MANAGEMENT OF LIBRARY AND INFORMATION CENTRES**

**Subject Code : 1418206**

### **Unit 1:**

Concept; Functions and principles of management – their application in LICs

### **Unit 2:**

Planning, management and organization of LICs

Library Standards

### **Unit 3:**

House keeping routines of Library and Information Centres in traditional and electronic environment - Acquisition; Serial control; Technical processing ;

Circulation control; Bar-coding and RFID

Preservation and Conservation Library Materials

### **Unit 4:**

Human Resource Management in LICs

Training & Development, Performance appraisal; Motivation theories

Financial Management in LICs - Sources of finance; resource mobilization -

Budgeting techniques

### **Unit 5:**

Quality and Performance measurement of LICs - PERT/CPM TQM – applications

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**Library Science**

**Evaluation of Library and information System**

**Text Books**

- 1 Evans, G Edward: Management techniques for librarians, 2nd Ed., New York, academic Press, 1983.

**References**

- 1 Evans, G Edward. Developing Library and Information centre Collections. New York, Libraries Unlimited, 2005
- 2 Gaur, C. Ramesh. Re-engineering Library and Information Services: process, people & technology. Mumbai, Allied, 2003
- 3 Gorman, G.E. International yearbook of Library and Information management 2003-2004 metadata applications and management. London, L.A., 2003
- 4 Kahn, Mirian B. Studies in Library and Information Science. 4 Vol. Vol.3: Managing electronic government information in libraries. Delhi, Pentagon, 2009.
- 5 Kahn, Mirian B. Studies in Library and Information Science. 4 Vol. Vol.2:
- 6 Fundamentals of collection development and management. Delhi, Pentagon, 2009
- 7 Khan, M.A. The Principles and practice of Library science. Delhi, Academia Pub., 2004

**BIBLIOMETRICS , SCIENTOMETRICS AND WEBOMETRICS**

**Subject Code : 1418207**

**Unit 1:**

Bibliometrics – definition, historical perspective

Concept of librametry – application in libraries

**Unit 2:**

Bibliometric laws – Bradford’s laws, Zipf’s Law, Lotka’s law –

Characteristics and application

**Unit 3:**

Citation analysis – definition and application

Citation studies – citation indexing

Bibliographic coupling

**Unit 4:**

Informetrics and Scientometrics – definition and scope

Information flow-quantitative studies

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Scientometric analysis – communication patterns in science – scientific

Productivity - Altmetrics

Price law; half-life and obsolescence

**Unit 5:**

Webometrics – definition and scope; methods and tools

Application of bibliometrics to the Internet

Quantitative and qualitative studies on the Web

**Text books**

- 1 Pritchard, Allan. Statistical Bibliography or Bibliometrics. Journal of Doc. 25[4].
- 2 Ravichandra Rao, I.K: Bibliometric Models - An Entropy Approach & their application/ IASLIC Special Publication No.25, Bangalore, 1995. p 1-7

**References**

- 1 Bookstein, A.–Bibliometric Distribution. Library Quarterly 46[4], 1934. P 416-23
- 2 Brookes B.C: Numerical Methods of Bibliographic analysis. Lib. Trends, 1973.
- 3 Brookes, B.C. Derivation & Application of the Bradford Zipf's Distribution Journal of Doc. 24[4], 1968,
- 4 Brooks B.C.: Theory of the Bradford's law. Journal of Documentation. 33(3) 1977
- 5 Frost, C.O.: Use of citations in Literary Research – a preliminary classification of
- 6 Pope, Andrew. Bradford's Law & the periodical literature of Inf. Sci. J ASIS 26[4], 1975, P 207-13.
- 7 Price, Derek De Solla. General Theory of Bibliometric & other Cumulative
- 8 Roy Chowdhury S.P & Mahapatra M: Validity & Scope of Bradford's scatter laws. Some observations. IASLIC Special Publication, Doc. No 25. 15th IASLIC
- 9 Conference Bangalore, p 71-78.
- 10 Subba Rao, C V: Librametry - A statement of limitations & values IASLIC Spl

**KNOWLEDGE MANAGEMENT**

**Subject Code : 1418208**

**Unit 1:**

Sociology of Knowledge; Knowledge society. Knowledge environment; Types of Knowledge: Tacit and Explicit;

**Unit 2:**

Introduction to KM – evolution, definition, objectives and perspectives of KM;  
Significance of KM. Information Management Vs. Knowledge Management; Role of Technology in KM – knowledge management tools

**Unit 3:**

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**Library Science**

KM Cycle – Knowledge Creation, Acquisition, Capture, Codification, discovery and data mining, Sharing and Application; KM frame work and Models;

**Unit 4:**

Knowledge and Organization - Knowledge Workers, essential skills for knowledge workers. Role of LICs as Knowledge Management centres; K.M. applications in India

**Unit 5:**

KM tools - Selection and Evaluation of KM Tools: Content Management Systems, Business Intelligence, Search Engines, Enterprise Knowledge Portals, Technologies and Tools for Collaboration: Blogs, Wikis, Groupware, Discussion Groups, Collaborative Tagging.

**Text Books**

- 1 Al Hawarden, S. Knowledge Management: cultivating knowledge professionals. Oxford, Chandos Pub., 2003
- 2 Groff, T.R., and Jones, T.P. Introduction to Knowledge Management. Butterworth Heinemann, 2003.

**References**

- 1, Abell, Angela and Oxbrow, Nigel. Competing with knowledge: the library professional in knowledge management age. London, L.A., 2002
- 2 Byron Bergeron. Essentials of Knowledge Management. New York, John Wiley and Sons, 1990
- 3 Elias M. Awad, Hassan M. Ghaziri Knowledge Management. Prentice Hall, 2004
- 4 Philippe Baumard. Tacit Knowledge in Organizations. Sage Pub., 1999
- 5 Seetharama, S. Ed. Libraries and Information Centres as Profit Making Institutions. New Delhi, Ess Ess Pub., 1998
- 6 Stuart Barnes (ed) Knowledge Management Systems Theory and Practice. Thomson learning, 2002

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**INFORMATION SEEKING BEHAVIOUR, USER AND USER STUDIES**

**Subject Code : 1418209**

**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 behavior users and their influencing factors – Limitations in behavioural research in librarianship.

**Unit – 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.

**Text Books**

1. Kumar, PSG. User and user studies. New Delhi : B R Publications, 2008
2. Wilson, T. D(2000). "Information Seeking Behaviour".

**References :**

1. "Kuhlthau's Model of the Stages of the Information Process". Retrieved 2011-03-30.
2. David, Ellis; Haugan, Merete (1997). "Modelling the information seeking patterns of engineers and research scientists in an industrial environment". Journal of Documentation 53 (4): 384–403.

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3. Belkin, Nicholas J. "Anomalous states of knowledge as a basis for information retrieval," *Canadian Journal of Information and Library Science*, 5 pp.133-143.
4. Chi, E.H; Pirolli, P; Chen, K; and Pitkow J. "Using information scent to model user information needs and actions and the web," In *Proceedings of the SIGCHI conference on Human factors in computing systems 2001*, pp. 490-497
5. Klein, G., Moon, B. and Hoffman, R.F. "Making sense of sensemaking I: alternative perspectives," *IEEE Intelligent Systems*, 21(4), 70-73.
6. Case Donald O. "Principle of least effort," *Theories Of Information Behavior*, Karen Fisher ed. p50.
7. White, Ryen W and Drucker, Steven M "Investigating behavioural variability in web search," *16th International World Wide Web Conference (WWW 2007)*
8. Robinson, M. A. (2010). An empirical analysis of engineers' information behaviors. *Journal of the American Society for Information Science and Technology*, 61(4), 640–658. <http://dx.doi.org/10.1002/asi.21290>
9. Case, Donald O. (2002). *Looking for information: a survey of research on information seeking, needs and behavior*. Academic Press. p. 10. ISBN 978-0-12-369430-0.
10. Baby, et al. (2000). *Changing trends in library and information science. Modern Trends In Information Technology*. New Delhi: Ess Ess Publication.
11. Bokhari, S.A. M. (1976). *Information needs of engineers of heavy complex Texila*. Unpublished master's thesis, University of the Punjab, Lahore.
12. Dawra, M. (2003). *Encyclopaedia of modern library and information science (Vol. 4). Information Needs of Users*. New Delhi: Rajat Publications.
13. Ellis, D. (1989). A behavioral approach to information retrieval design. *Journal of Documentation*, 46(3), 318-338.
14. Parvez, S. (1975). *Information needs of dental surgeons working in the Dental College and Hospitals of Lahore*. Unpublished master's thesis, University of the Punjab, Lahore.
15. Perveen, S. (1976). *Information needs teachers and research staff working in the social sciences department of the University of the Punjab*. Unpublished master's thesis, University of the Punjab, Lahore.
16. Qureshi, M. T., Zafar, K.M. & Khan, B.M. (2008). Information needs & information seeking behavior of students in Universities of Pakistan. *Journal of Applied Sciences Research*, 4(1), 40-47.
17. Shahzad, K. (2007). *Information seeking behavior of faculty members of Govt. College University, Lahore*. Unpublished master's thesis, the Department of Library Science, University of the Punjab, Lahore.

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18. Sharma, D. C. (1992). *Advances in library & information science* (Vol. 3). Jodhpur: Scientific Publishers.
19. Shokeen, A., & Kushik, S.K. (2002). Information seeking behavior of social scientists of Haryana Universities. *Library Herald*, 40(1), 8-11.
20. Siddique, M. (1976). Information needs of chemists working in the PCSIR laboratories, Lahore. Unpublished master's thesis, Department of Library Science, University of the Punjab; Lahore.
21. Suriya, M., Sangeetha, G., & Nambi, M. A. (2004). Information seeking behavior of faculty members from Government Arts Colleges in Cuddalore District. *Library and Information Networking*, 285-292.
22. Tahir, M., Mahmood, K. & Shafique, F. (2008). Information Needs and Seeking Behavior of Arts and Humanities Teachers. *Library Philosophy and Practices*. Retrieved December 2008, from: <http://digitalcommons.unl.edu/libphilprac/227>
23. Tahira, M. (2008). Information need and seeking behavior of science and technology teachers of Punjab University. Unpublished M. Phil thesis, the Department of Library and Information Science, University of the Punjab, Lahore.
24. Vickery, B. (n.d.). *Techniques of information retrieval*. London: Butterworth & Co.
25. Watson, D., Blakeley, B. & Abbott, C. (1998). *Researching the use of communication tec*