

**DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
MAHARSHI DAYANAND UNIVERSITY, ROHTAK**

PhD Program in Library and Information Science

Program Specific Outcomes (PSOs)

At the end of the program, the student learns:

- PSO₁**. The research basics of library and information science in terms of theory and practice will be achieved
- PSO₂**. Learn to achieve, the different types of research and its practical utility in the society and the course further helps in knowing the recent trends in the field also
- PSO₃**. The uniqueness of the course is so diversified new research techniques i.e., bibliometrics and scientometrics will be achieved
- PSO₄**. The students are trained to handle all kinds of statistical techniques including the primary and advanced level including managerial skills
- PSO₅**. The usability of the research methods is so high that similar methods can be used in different situations other than library and information environment
- PSO₆**. Training in research ethics will help in future when the students do research on community, ethnic and health related field

Scheme of Examination

PhD Course Work in Library and Information Science

(As per credit system w.e.f. the academic year 2016-17)

Note: The course work will be of one semester. Each student has to earn 12 credits in the course.

Sem	Paper Code	Nomenclature	L-T-P	Marks			Duration	Credits
				Internal Assessment	Exam Marks	Total Marks		
I	17LIBPC11C1	Research Methodology	4-0-0	20	80	10	3 hrs	4+0+0=4
	17LIBPC11C2	Computer Applications in Library and Information Science	4-0-0	20	80	10	3 hrs	4+0+0=4
	17LIBPC11C3	Emerging Trends in Library and Information Science	4-0-0	20	80	10	3 hrs	4+0+0=4
Credits		C=12		Total Credits:			12	

17LIBPC11C1: RESEARCH METHODOLOGY

Course Outcomes (COs)

The students will be able to know:

- CO1: the basics of research methods in terms of types, category and its usability;
- CO2: how to examine major concepts of research approach in terms of qualitative, quantitative and mixed;
- CO3: information about different types of statistical methods and usability;
- CO4: research ethics and applicability in different situations;
- CO5: the use of special software to handle the complex statistical situation.

Maximum marks: 80

Pass marks: 32

Time: 3hrs.

Note

The paper is divided into 4 units. The candidates are required to attempt 5 questions in all, selecting 1 question from each unit, out of two internal choices. Question 1 is compulsory consisting of 8 short answer type questions, spread over the whole syllabus. All questions carry equal marks.

Unit 1: Research

- Research: Meaning, Definition, Importance, Characteristics
- Types of Research: Pure, Applied and Action Research
- Research Ethics
- Literature search – Print, Non-print and Electronic sources

Unit 2: Research Design

- Research Design: Concept, Need and Purpose
- Types of Research Design
- Hypothesis formulation

Unit 3: Research Methods, Tools and Techniques

- Research Methods: Scientific, Historical, Case Study, Survey, Experimental
- Research Tools: Questionnaire, Interview, Schedule, Observation
- Sampling Techniques

Unit 4: Statistical Techniques

- Measures of Central Tendency: Mean, Median, Mode
- Measures of Dispersion, Variance and Covariance
- Standard Deviation
- Presentation of Data: Tabular, Graphic, Bar Diagram, Pie Chart, etc.
- Data Analysis: Use of SPSS

Suggested Reading:

1. Busha, C.H and Harter, S.P. *Research methods in librarianship: Techniques and interpretation*. New York: Academic Press, 1980.
2. Goode, W.J. and Hatt, P.K. *Methods in social science research*. New Delhi: McGraw Hill, 1986.
3. Krishan Kumar. *Research methods in library and information science*. New Delhi: Vikas Publishing House, 1992.
4. Kumar, P. S. G. *Research methods and statistical techniques*. Delhi; B. R. Publishing Corpn., 2004.
5. Leddy, Paul D. *Practical research: Planning design*. London, Clive Bingley. 1980.
6. Rao, I. K. Ravichandra. *Quantitative methods in library and information science*. New Delhi: Wiley Eastern, 1983.
7. Slater, Margaret, ed. *Research methods in library and information studies*. London: Library Association, 1990.
8. Stevens, R.E. Ed. *Research methods in librarianship*. London, Clive Bingley, 1971.

17LIBPC11C2: COMPUTER APPLICATIONS IN LIBRARY AND INFORMATION SCIENCE

Course Outcomes (COs)

The students will be able to know:

- CO1: the computer basics in terms of software and hardware;
- CO2: major areas of computer applications in handling library operations;
- CO3: about software handling;
- CO4: about use of internet and e-resources;
- CO5: about modern computing techniques used in blog, websites and other social networking platforms.

Maximum marks: 80

Pass marks: 32

Time: 3hrs.

Note

The paper is divided into 4 units. The candidates are required to attempt 5 questions in all, selecting 1 question from each unit, out of two internal choices. Question 1 is compulsory consisting of 8 short answer type questions, spread over the whole syllabus. All questions carry equal marks.

Unit 1: Library Automation

- Library Automation: Definition, Need and Purpose
- Planning and Implementation of Library Automation
- Automation of Library Housekeeping Operations
- Library Application Software Packages: SOUL, LIBSYS, WINISIS

Unit 2: Communication Technology

- Communication Technologies: Media and Mode
- Network Types: LAN, MAN, WAN
- Network Topologies
- Components of LAN: Servers, PCs etc., Network Interface Card, Hubs, Routers, Modems, UPSs

Unit 3: Library Networks and Consortia

- Library Networks in India- DELNET, INFLIBNET
- Library Networks at International Level: OCLC, JANET, RLIN
- Library Consortia in India: UGC-INFONET, INDEST

Unit 4: Internet

- Internet Services
- Internet Protocols: FTP, HTTP

- Standards: OSI Reference Model
- Web Tools: Web browsers (Netscape, Internet Explorer, etc.), Search Engines (Google, Yahoo), E-mail
- Internet Security

Suggested Reading:

1. Bala, Krishnan Shyama and Paliwal, P. K., ed. *Networking and the future of libraries*. New Delhi: Anmol Publishing, 2001.
2. Basandra, Suresh K. *Computer today*. New Delhi: Galgotia Publication Pvt. Ltd., 1998.
3. Bradley, P. *World Wide Web: How to design and construct web pages*. 2nd Ed. London: ASLIB, 2000.
4. Forouzan, B. A., Coombs, Catherine and Fegan, S. C. *Data communication and networking*. 2nd ed. New Delhi: Tata McGraw-Hill, 2000.
5. Jeanne, F. M. *A librarian's guide to the Internet: A guide to searching and evaluating information*. Oxford: Chandos publishing, 2006.
6. Tedd, Lucy, A. *An Introduction to computer based library system*. 3rd ed. Chinchester: Wiley, 2005.
7. Rowley, J. *The electronic library*. 4th ed. London: LA, 1998.
8. Stallings, William. *Data and computer communications*. 6th ed. New Delhi: Pearson Education Asia, 2001.
9. Yadav, D. S. *Foundations of information technology*. New Delhi: New Age International (P) Ltd, Publishers, 2006.
10. Zorkoczy, Peter. *Information Technology: An introduction*. London: Otiman, 2005.

17LIBPC11C3: EMERGING TRENDS IN LIBRARY AND INFORMATION SCIENCE

Course Outcomes (COs)

The students will be able to know:

- CO1: the general trend in which the discipline of LIS is moving;
- CO2: to identify major areas in which the researchers are doing research;
- CO3: the doctoral contribution in the field in terms the research guide and their field of research;
- CO4: the professional developments in the profession;
- CO5: the employability areas and to thrive on it.

Maximum marks: 80

Pass marks: 32

Time: 3hrs.

Note

The paper is divided into 4 units. The candidates are required to attempt 5 questions in all, selecting 1 question from each unit, out of two internal choices. Question 1 is compulsory consisting of 8 short answer type questions, spread over the whole syllabus. All questions carry equal marks.

Unit 1: Digital Libraries and Institutional Repositories

- Digital Library- Genesis, Definition, Objectives and Scope
- Digitization process: Input Capture Devices
- Digital Library Software: Greenstone and Dspace
- Metadata: Types, Dublin Core
- Institutional Repositories: Concept, Need

Unit 2: Information Society

- Information Society- Genesis, Characteristics and Implications
- Changing Role of Library and Information Centres in Society
- Information Industry: Generators, Providers and Intermediaries

Unit 3: Electronic Resources

- Electronic Resources- Concept, Features, Characteristics
- Types of Electronic Resources
- Collection Development of Electronic Resources
- Access Channels for Electronic Resources

Unit 4: Information Services and Information Literacy

- Information services: Concept, Definition, Need
- Alerting services: Computerized CAS and SDI
- Information Literacy: Concept, Definition, Need
- ACRL Standards for Information Literacy

- Information Literacy Models

Suggested Reading:

1. Eisenberg, Michael. *Information literacy: Essential skills for the information age*. 2nd ed. Westport Publ.: Libraries Unlimited, 2005.
2. Jaswal, D.S. *Recent trends in library and information science*. Chandigarh: Arun Publishing House, 2008.
3. Rydberg-Cox, Jefery A.. *Digital libraries and the challenges of digital humanities*. Oxford: Chandos Publishing, 2006.
4. Katz, Linda S. *Collection development policies: New dimension for changing collections*. London: Roulledge, 2003.
5. Lal, C, ed. *Information literacy in the digital age*. New Delhi: Ess Ess Publications, 2008.
6. Lancaster. F.W. *Electronic publishing and their implications for libraries and beyond*. London: Clive Bingley, 1990.
7. Martin, William J. *The information society*. London: Aslib, 1988.
8. Prasher, R.G. *Information and it communication*. New Delhi: Medallion Press, 1991.
9. Richard Jones. *The institutional repository*. Oxford: Chandos publishing, 2006.
10. Ramaiah, L.S, Reddy, Sankara and Hemant Kumar. *E-libraries: Problems and perspectives*. New Delhi: Allied Publishers, 2007.