UNIVERSITY OF RAJASTHAN
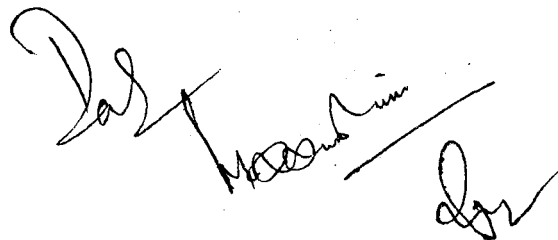## DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

PRE-PH.D COURSE WORK

Introduction:

The course work for the doctoral research has been made mandatory by the UGC. Therefore, University of Rajasthan, Jaipur has decided to implement it immediately with effect from academic year 2011 and onwards. The course work is designed to support, motivate and encourage quality research. By undergoing this course work, the student will get equipped with fundamentals of research methodology, better communication skills and also the recent developments in the field of specialization of the respective areas. Another objective of introducing the Course work as a Pre-Ph.D. requirement is to facilitate Research Scholars to understand the nature of the complexities and challenges that they are likely to encounter during the research. The idea is to introduce research scholars to a variety of methods of analysing data, interpretation techniques so that they may exercise their discretion to choose the most appropriate tools for investigating a particular topic/area/subject. Scholars would also need certain skills to represent, write-up, extricate and excavate the results of the data that they have accumulated. Training in the use of language, qualitative and quantitative methods of data presentation will be introduced in this course work. This is to enable scholars to present their research findings to meet effectively. The course work has to be completed by the student in a satisfactory way before submission of his/her Ph.D. thesis within two years from the year of his/her registration

SCHEME OF EXAMINATIONS FOR PRE-PH.D COURSE WORK IN LIBRARY & INFORMATION SCIENCE, SESSION 2012-13 and ONWARDS

Programme Structure: The duration of Pre-Ph.D course work will be of six months, i.e. only one Semester. The Pre-Ph.D course work shall comprise of four compulsory papers as follows:
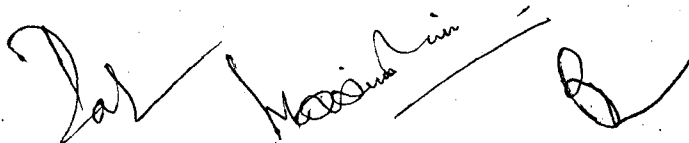
S.No.	Code of Paper	Name of Paper	Max. Marks	Time
1.	PPH-I	Research Methodology	100	3 HRS.
2.	PPH-II	Review of Published Research Work	100	3 HRS.
3.	PPH-III	New Horizons in Library and Information Science	100	3 HRS.
4.	PPH-IV	Application of Information and Communication Technology (ICT) IN Library and Information Centres	100	3 HRS.
		Grand Total	400	

Note:

1. In all Papers-I,III and IV, Paper setters will set 3 questions in all, out of which students will be required to attempt all questions. Q. No. 1 will be compulsory and will carry 50 marks. It will comprise of 10 short answer type notes of 5 marks each to be selected from the entire syllabus. Two long answer type questions will be set in choice pattern. Long answer questions will carry 25 marks each.

2. In Paper II, students will be required to review the published research work in the relevant field under supervision of assigned supervisor.

Syllabus for Pre- Ph.D Course (LIBRARY & INFORMATION SCIENCE) 2014

PAPER- PPH-I: Research Methodology   **100**

1. Foundation of Research: Concept, Meaning, Objectives and Limitations of Research

2. Types and Methods of Research: Classification of Research, Pure and Applied Research, Descriptive Research, Diagnostic Research/Study, Action Research, Experimental Research, Historical Research, Surveys, Case Study and Field Studies

3. Review of Literature: Need for Reviewing Literature, What to Review and for What Purpose, Literature Search Procedure, Sources of Literature, Planning of Review work

4. Planning of Research: The planning Process, Selection of a Problem for Research, Formulation of the Selected Problems, Hypothesis Formation, Measurement, Research Design/Plan

5. Sampling: Sampling Techniques or Methods, Choice of Sampling Techniques, Sample Size, Sampling and Non-Sampling Errors

6. Methods of data collection: Meaning and Importance of Data, Sources of Data, Use of Secondary Data, Methods of Collecting Primary Data, Observation Method, Schedules and Questionnaires, Experimentation , Simulation, Interviewing, Panel Method, Survey, Field work

7. Processing of Data: Editing, Classification and Coding, Transcription, Tabulation, and Introduction to Statistical Software: SPSS, Graphical Representation

8. Statistical Analysis of Data: Statistical Analysis, Measures of Central Tendency, Measures of Dispersion, Measures of Association/Relationship, Regression and Correlation Analysis, Hypothesis Testing (For Proportion and Means), Test of Significance

9. Report writing: Types of Reports, Planning of Report Writing, Research Report, Format, Principles of Writing, Documentation, Data and Data Analysis reporting in a Thesis, Writing of Report, Typing of Report, Briefing

Selected Readings:

1. ADAMS (Gerald R) and SCHVANVELDT (Jay D). Understanding research methods. 1985. Longman, New York.

2. REDDY (T Subbi) and RAO (P Bappa). Research methodology and statistical measure. 1995. Reliance Publishing House, New Delhi.

3. BUSHA (Charles H) and HARTER (Stephen P). Research methods in librarianship: Techniques and interpretation. 1980. Academic Press, New York.

4. Coffey, A and Kinson, P (1996), Making Sense of Qualitative Research: Complementary Research Strategies, Thousand Oaks, CA: Sage

5. Desai H.G. (1979) Style manual for dissertation thesis, Rajkot Saurashtra University.

6. Denzin, N.K. and Lincoln, Y.S. (1994) Introduction: Entering the Field of

Qualitative Research in N.K. Denzin and Y.S. Lincoln (Eds), Handbook of

7. Qualitative Research Thousand Oaks, CA: Sage, 1-17

8. Edward, A.L (1957) Techniques of Attitude Scale Construction, New York: Appleton Century Crofts Inc

9. Festinger, U & Katz, Research Method in Behavioural Science, New York Bold Dryen

10. Finchjanel (1986) Research and Policy the use of qualitative methods in Social Education Research Falmer Press

11. Fox, David J (1969) The Research Process in Education, New York: Holt, Rinchart and Winston Inc

12. Good, Center V (1966) Essentials of Educational Research: Methodology and Design, New York: Applenton Century Crafts Inc

13. Kerlinger Fred N (1978) Foundation of Behavioural Research, New Delhi: Surneet Publication

14. Kothari, C. R. Research Methodology: Methods and Techniques. New Age International Publishers, ISBN: 81-224-1522-9

15. Koul Lokesh (2007) Methodology of Educational Research, Vikas Publishing House Pvt Ltd., Third Revised Edition

16. Krishnaswamy, O. R Methodology and M. Rangnatham . Methodology of Research in Social Sciences. Himalaya publication House, 2005, ISBN: 8184880936

17. Turabian, K. L (1973), A Manual for Writers of Term Papers, Theses and Dissertation, Chicago, University of Chicago Press.

18. Gupta, S.P., Statistical Methods, Sultan Chand and Sons, New Delhi

19. Simpson and Kafka : Basic Statistics, Oxford and IBH Publishers

20. GUPTA (CB). An Introduction to statistical methods. 1979. Vikas Publishing House, Gahaziabad

21. YOUNG (DV). Scientific social survey and research. 1982. Prentice Hall, New Delhi.

22. FRANKFORT (Chava) and NACHMIAS (David). Research methods in social sciences. Ed 4. 1992. St. Martin Press, New York.

23. KRISHAN KUMAR. Research methods in library and information science. Rev. ed. 1999. Har - Anand Publication, New Delhi.

24. GHOSH (BN). Scientific methods and social research. 1982. Sterling, New Delhi.

25. GOODS (Carter V) and SCATES (Donglas E). Methods of research. 1954. Appleton - Century - Croft, New York.

26. KERLINGER (Frederick N). Foundation of behavioral research. Ed. 2. 1973. Holt, Rinehart and Winston, New Delhi.

27. SARANTAKOS (Sotirios). Social research. 1993. Macmillan, London.

28. REID (LA). Ways of knowledge and experience. 1961. Allen and Unwin, London.

29. FLOWER (WS). Development of scientific methods. 1963. Pergamory, New York.

30. POWELL (Ronald R). Basic Research methods for librarians. 1985. Ablex, Norwood, N.J.

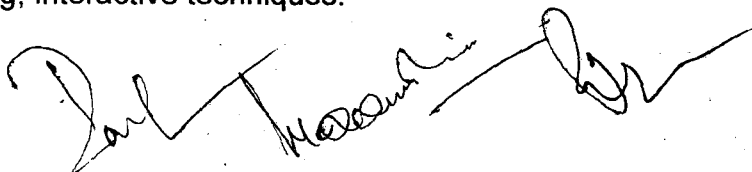## PAPER- PPH-II: Review of Published Research Work   100

The Candidate will have to review the published research work related to their field of research, under the guidance of their research supervisor. The candidates may consult different journals, books or research articles available in the library or on the internet. They will be required to prepare review reports and give a presentation at the end of the semester for evaluation.

PAPER- PPH-III: New Horizons in Library and Information Science Centres   100

1. Information Society: Concept and features. Concept of Knowledge Society, Role of Library and Information Centers in the Information Society

2. Information Literacy: Concept and Types, Information Literacy Model, Role of UNESCO

3. Information Policies: Intellectual Property Rights (IPR), Censorship and Freedom of Information, IFLA/FAIFE- Objectives and mission.

4. Knowledge Management: Concept, Need, Functions, Activities, Role of Libraries in Knowledge Management, Digital Library, Virtual Library and Virtual Learning – Online learning, interactive techniques.

5. Information Analysis, Consolidation and Repackaging: Concept, need and process, Content Analysis, Abstract and Abstracting

6. Information Retrieval (IR) Systems: components, Bibliographic Description: Standards for bibliographic Description: ISBDs, MARC, CCF and MARC 21, Metadata: Concept, Formats.

Selected Readings:

1. KAKABADIE (Nada K) and KAKABADSE (Andrew K). Creating future: Leading change through information systems. 2000. Ashgate, USA.

2. KUMAR (PGG). Fundamentals of information Science. 1998. B.R. Publishers, Delhi.

3. PRYTHERCH (Ray), Ed. Gover handbook of information management. 1998. Gower, England.

4. FEATHER (John). Information Society. Ed 2. 1998. Library Association, London.

5. TARGOWSKI (Andrew S). Global Information infrastructure: The birth, vision and architecture. 1998. Idea Group Publication, USA.

6. RANGANATHAN (SR). Documentation: its genesis and development. 1973. Vikas, Delhi.

7. PENNA (CV). The Planning of library and Documentation Service. 1970, Unesco, Paris.

8. MUKERJEE (A.K.). Fundamentals of special librarianship and documentation. 1965. Iaslic, Calcutta.

9. International Conference on Scientific Information. Proceedings 2V. 1958. Washington.

10. KENT (A). Text book on mechanized information retrieval. 1962. Interscience, New York.

11. SAMULESON (Kjel). Mechanized Information storage retrieval and dissemination. 1968.

12. KOTLER (Philip) and ARMSTRONG (Gray). Principle of marketing. Ed. 7. 1996. Prentice Hall of India, New Delhi.

13. BROPHY (Peter). The academic library 2000. Library Association, London.

14. CHAPMAN (Liz). Managing acquisition in library and information service. 2001. Library Association, London.

15. LYLE (GR). Administration of the college library. Ed 4. 1974. Wilson, New York.

16. WEBB (Sylvia P). Personnel development in information work. Ed. 2 1991. Aslib, London.

17. WILSON (LR) and TAUBER (MF). University Library. Ed 2. 1956. Columbia University Press, New York.

18. BRAMHAM (J). Human resources planning. 1990. Institute of Personnel Management, London.

19. BENNISON (M) and CASSON (J). The manpower planning handbook. 1984. McGraw-Hill, New York.

20. STOREY (J). Development in the management of human resources. 1992. Blackwell publishers, Oxford.

21. BAKER (David), Ed. Resource Management in academic libraries. 1997. Library Association, London.

22. GELFAND (MA). Universities libraries for developing countries. 1968. Unesco, Paris.

23. EVANS (GE). Management techniques for librarians. Ed 2. 1983. Academic Press, San Diego.

24. RIZZO (JR). Management for librarians: Fundamentals and issues. 1980. Greenwood Press, West Port.

25. NARAYANA (GJ). Library and information management. 1991. Prentice-Hall, New Delhi.

26. CHAPMAN (Edward A) and others. Library systems analysis guidelines. 1970. Wiley Interscience, New York.

27. DOUGHERTY (RM) and HEINRITZ (FJ). Scientific management of library operations. Ed 2. 1983. Scarecrow, Washington.

28. LANCASTER (FW). The measurement and evaluation of library services. Information Resources Press, Washington.

29. COOTE (Helen) and BATCHELOR (Bridge). How to market your library service effectively. Ed 2. Aslib, London.

30. JAIN (Abhinandan K) and others. Marketing information products and services: A primer for libraries and information professionals. 1999. Tata McGraw-Hill, New Delhi.

31. THOMPSON (Jones). Introduction to University library administration. 1970. Clive Bingley, London.

PPH-IV: Application of Information and Communication Technology (ICT) IN Library and Information   100

1. Operating systems: OS as a resource manager, Types of OS, Features of OS, Application of MS-Office

2. Component of Information Technology: Computer technology, Audio-visual technology and Telecommunication technology

3. Telecommunication tools: Transmission media, switching systems, Protocols, Wireless Communication. Fax, E-mail, Tele-Conferencing /Video-Conferencing. Bulletin Board Service, Teletext, Videotext,

4. Networking – Concepts, components & categories, security, Resource Sharing; Library networks and consortium. Study of UGC Infonet, DELNET, INDEST, and INFLIBNET.

5. Library Automation – Areas of automation and its planning, OPAC, Bibliographical and Full text databases: Study of LISA and NISCAIR on-line Periodical Repository as examples. Institutional repository.

6. Application of Hypertext, Hypermedia, Multimedia. Expert System and Artificial Intelligence.

Selected Readings:

1. HUNT (Reger) and JOHN (Shelly). Computer and Commonsense. 1982. Printice Hall, Delhi.

2. REWLEY (JE). Computers for libraries. 1980. Clive Bingley, London.

3. TEDD (LA). Introduction to Computer-based library system. Ed 2. 1984. Hyden, London.

4. MAYNARD (J). Computer programming - made simple. 1983. ELBS, London.

5. FOSDICK (Howard). Computer basics for librarians and information scientists. 1985. Information Resources Press, Arlington.

6. LEVEY (Ian). Automating library procedure. 1984. Library Association, London.

7. KAUL (HK). Library network: An Indian experience. 1992. Virgo, New Delhi.

8. BROPHY (Peter). The library in the 21st century: New serice for information age. 2001. Library Association, London.

9. CHOWDHURY (GG) and CHOWDHARY (Sudatta). Searching CD-ROM and online information sources. 2001. Library Association, London.

10. DICKSON (Garg W) and DESANCTIS (Gerardine). Information technology and the future enterprise: New models for managers. 2001. Prentice Hall, New Jersey.

11. JANCZEWSKI (Lech). Internet and intranet security management: Risks and solutions. 2000. Idea, Hershey.

12. RODRIGUEZ (MVR) and FIRRANTE (AJ). Information technology for the 21st Century: managing the change. 1996. MVR Rodviguez, Milano.

13. LESK (Michael). Practical digital libraries: Books, bytes and bucks. 1997. Morgan Kaufonon. San Francisco.

14. WINSHIP (Ian) and McNAB (Alison). The student's guide to the Internet. 1999. Library Association, London.

15. WISE (Richard). Multimedia: A critical introduction. 2000. Routledge, London.

16. SESHAGIRI (N) and AHAPOV (ARAM), Ed. Multimedia Computer and Communication. 1992. McGraw-Hill, New Delhi.

17. SUZANNE (Bahter), Ed. Information transfer, New age, New wasy. 1983. Kluwer Academic Publishers, London.

18. Getting Started Microsoft Windows 98. Ed 2. 1999. Microsoft Corporation, USA.

19. MINASI (Marks). Mastering in Windows NT server. 1999. BPB, New Delhi.

20. Discovering Microsoft Office 2000 premium and professional 1999. Microsoft Corporation, USA.

21. MINI-MICRO CDS/ISIS. Reference manual and CDS/ISIS PASCAL manual. 1989. Unesco, Paris.