

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE UNIVERSITY OF CALICUT

Doctor of Philosophy (Ph.D.) Programme in Library and Information Science - Syllabus

Paper 1 - RESEARCH METHODOLOGY

Unit 1 Research

Concept, meaning, need and functions of research
Types of research-fundamental, applied including Inter-disciplinary and multi-disciplinary approach
Ethical aspects of research

Unit 2 Research Design

Types of research design
Identification and formulation of research problem
Hypothesis: formulation, types and testing
Literature search: print, non-print and electronic sources
Review of related literature

Unit 3 Research Methods

Scientific method
Historical method
Descriptive method
Survey method
Case study method
Experimental method
Delphi method; Brainstorming method

Unit 4 Research Techniques and Tools

Questionnaire
Interview
Observation
Scales and scaling techniques
Online research tools
Sample and sampling techniques

Unit 5 Data Analysis, Interpretation and Report Writing

Processing data: editing, coding and analyzing data
Descriptive and inferential data analysis
Presentation of data- tables and graphs
Techniques of interpretation
Structure, style and contents of research report
Style manuals- APA and MLA
E-citation and reference management tools – Zotero, EndNote
How to avoid plagiarism- Best practices and methods
Trends in Library and Information Science research

8.2.2023

Chairman, BOS

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Reading list

1. Alvesson, M. and Skoldberg, K. Reflexive methodology: new vistas in qualitative research. Ed. 2. London: Sage Publication, 2009.
2. Busha, C. H., & Harter, S. P. Research methods in librarianship: Techniques and interpretation. Academic press, 1980.
3. Busha, Charles T. and Harter, Stephen. P. Research methods in librarianship. New York: Academic Press, 1980.
4. De Leeuw, E. D., Hox, J., & Dillman, D. International handbook of survey methodology. Routledge, 2012
5. Greenfield, T. Research methods: guidance for postgraduates. London: Hodder Arnold, 1996.
6. Kothari, C. R. Research methodology: Methods and techniques. New Age International, 2004.
7. Krishan Kumar. Research methods in Library and Information Science. Rev. Ed. 1999. New Delhi: Har-Anand Publications, 1999.
8. Kumar, P S G. Research methods and statistical techniques. New Delhi: B. R. Publications, 2004.
9. Lancaster, F. W. and Powell, R. R. Basic research methods for librarians. New Jersey: Ablex Publishing, 1995.
10. Line, M. B. Library Surveys: An Introduction to Their Use. Planning Procedure and Presentation. London: Clive Bingley, 1967.
11. Martyn, John and Lancaster, F. Wilfrid. Investigative methods in library and Information Science: an introduction. Arlington, Virginia: Information Resources Press, 1981.
12. Powell, R. R. and Silipigni, C. L. Basic research methods for librarians. Ed. 4. Westport: Libraries Unlimited, 2004.
13. Slater, M. Research methods in library and information studies. Library Assn Pub Limited, 1990.
14. Slater, M. Research methods in library and information studies. Library Assn Pub Limited, 1990.
15. Slater, M., ed. Research methods in Library and Information Studies. London: Library Association Publishing, 1990.
16. Trochim, William M. 2nd ed. Research Methods. New Delhi: Biztantra, 2003.
17. Williamson, K. Research methods for students, academics and professionals: Information management and systems. Elsevier, 2002.
18. Young, P.V. Scientific Social Surveys and Research. New Delhi: PrenticeHall of India Ltd., 1984.



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Ph.D. COURSE WORK EXAMINATION

Library and Information Science

Paper I - Research Methodology

Time: Three Hours

Maximum: 70 Marks

I. Write short notes on any *eight* of the following

1. Research design
2. Software packages for data analysis
3. Interview method
4. Style manuals
5. Applied and action research
6. Online surveys
7. Correlation co-efficient
8. Literature Search
9. Mean, Median, Mode
10. Hypothesis testing
11. Types of interviews
12. Stratified sampling

(8×5=40 marks)

II. Answer any *two* of the following:-

1. What is sampling techniques? Discuss the importance of sampling techniques in social science research
2. Explain the current trends in Library Science Research in India
3. Discuss the factors affecting the selection of a research problem
4. Explain the format and layout of a research report

(2 × 15 = 30 marks)



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