

SEMESTER- III

Course Code: P24MLS11A

Course Name- 3.1(A): RESEARCH METHODS AND TECHNIQUES

Credit Distribution			Total Credits	Internal Marks	Semester Marks	Total Marks
L	T	P	L+T+P	C1	C2	C3
5	-	-	5	25	75	100

Objectives

- To help students learn the basic concepts of research, their types, planning and Methods;
- Make the students become proficient in research methodology, sampling techniques and data collection tools.
- To help the students learn the statistical tools and techniques of analyzing, interpreting and reporting research.
- To Study the referencing and citation manuals and styles
- To enable the students to carry research projects and field survey

A. Course Outcome (CO)

After completion of the course, students will become familiar with the basic concepts in Library & Information Science.

COs	Course Outcome	Level	Level
CO 1	Understand the various concepts related to research and its types, objectives of doing research, research process	Understand	K2
CO 2	Illustrate the identification of research problems & design.	Apply	K3
CO 3	Know the different methods used to conduct research and examine the research method and techniques	Analyze	K4
CO 4	Exhibit the skills measurement & scaling techniques as well as the qualitative and quantitative data analysis	skill	K6
CO 5	Demonstrate the skills in application of statistics for data analysis and hypothesis testing	Skill	K6

B. Syllabus

Unit-I

Research: Definition, Objectives, Selection, Concepts, Purpose and Types; Research as Scientific Method, Research Process, Literature Review: Process and types; Search Strategies, Selection and Formulation of Research Problems; Sources of Research Problems, Criterion of Good Research

Unit-II

Research Design: Definition, Need, Types and Components: Features of Good Research Design, Research Design for Science, Social Science and Humanities; Sampling: Methods and Techniques; Hypothesis: Definition, Types, Formulation and Testing.

Unit-III

Types of Data: Primary and Secondary: Structure and Unstructured: Methods and Tools for Data Collection: Survey, Experimental, Case-Study, Questionnaire, Observation, Interview Schedules and Delphi Technique: Literature Review, Government and Commercial databases, ICT Web enabled Data Collection methods Web Scraping.

Unit-IV

Analysis of Data: Measures and Scaling Techniques, Multivariate techniques, ANOVA, ANCOVA Presentation of data, Interpretation, Inferences, Tabular, graphical representation; Info graphs- Basics of R, PYTHON, SPSS and SOFA.

Unit-V

Report Writing: Components and Mechanics of Research Report; Style manuals Tools; Reference Management Systems, Oral Presentations, Plagiarism Detecting Tools.

Unit-VI CURRENT CONTOURS (For Continuous Internal Assessment Only):

Case Studies-Survey-Information Needs: E-resources usage; Research profile compilation- Library website evaluation, Trends in LIS research, AI and SDG.

Selected Readings:

1. Busha C H and harter S P. Research Methods in Librarianship. New York: Academic, Publishing House, 1993
2. Fowler F J Jr. Survey Research Methods. New Delhi: Sage, 1993
3. Glazer J D and Powell R R. Qualitative Research in Information Management.
4. Englewood: Libraries Unlimited, 1992
5. Goode Wj and Hatt P K. Methods in Social Science Research. Auckland: McGraw-Hill, 1981
6. Kin Robert K. Case Study Research: Design and Methods. New Delhi: sage Publications, 1989
7. Kraft D H and Royce B R. Operations Research for Libraries and Information Agencies. San Diego, CA: Academic Press, 1991
8. Krishnaswamy O R. Methodology for Research in Social Sciences. Delhi: Himalayan
9. Lancaster F W. If you want to evaluate Your Library. London: LA, 1993
10. Line M B. Library surveys. London: Clive-Bingley, 1967
11. McClure Charles R and Hernon Peter Eds. Library and Information Science Research: Perspectives and Strategies for improvement. NJ, Ablex, 1991
12. Powell R R. Basic Research Methods for Librarians. Norwood., NJ: Ablex 1980
13. Simpson I S. How to Interpret Statistical Data. London: LA, 1990
14. Slater M. Research Methods in Library and Information Studies. London: LA, 1990.
15. Stevens R E (Ed). Research Methods in Librarianship. London: Clive-Bingley, 1971 Busha, Charles, H. and Harter, Stephen, S. Research Methods in Librarianship. Techniques and Interpretation. Orlando, Academic press, 1980.
16. Charles, H. et.al. Research Methods in Librarianship: Techniques and Interpretations. New Delhi, Sage, 1993.
17. Goode.W.J&Hatt.P.K. Method of Social Research. McGraw Hill. Auckland, 1989
18. Kothari.C.R.. Research methodology: Ed2 Wishwa. New Delhi, 1990.
19. Krishna Kumar: Research methods in library in Social science. Vikas, New Delhi, 1992

20. Krishna Swamy, O.R. Methodology of research in social sciences. Himalaya, Bombay, 1993
21. Line, Maurice.B. Library surveys; An introduction to the use, planning procedure and presentation of survey. Ed2 Clive Bingley, London, 1982.
22. RavichandraRoa, I.K. Quantitative methods in library and information science, Wiley Eastern. New Delhi, 1988.
23. Slatter,Margaret, Ed. Research ,methods in library and information science. London, L.A, 1990.
24. Stevens, Rolland.E. Research methods in librarianship, Clive Bingley, London, 1971.
25. Tabuer, M.F and Stephens, I.R. Ed. Library surveys. Columbia University Press, New York, 1968.
26. Wilson, E.S. Introduction to scientific research McGraw Hill, New Delhi, 1952.
27. Young,P.V.Scientific social surveys and research. Ed4. Prentice Hall of India, New Delhi, 1982
28. John W. Creswell. Research Design: Qualitative, and Mixed methods Approaches. Sage Publications, 2013.
29. Ranjit Kumar. Research Methodology: a step-by-step guide for beginners. 2014. (Google E-Books)

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