

**SARDAR PATEL UNIVERSITY
VALLABH VIDYANAGAR**



**SYLLABUS EFFECTIVE FROM: 2017-18
M. PHIL IN LIBRARY & INFORMATION SCIENCE**

SEMESTER: II

PAPER – III RESEARCH METHODOLOGY AND STATISTICAL TECHNIQUES

UNIT-I CHARACTERISTIC OF SOCIAL SCIENCE RESEARCH

- Nature of Social Science Research
- Recent trends in Social Science research with special reference to India.
- Objectivity in Social Science Research
- Social Science Res. in digital era.
- Characteristics of Research
- Basic types of Research, Research for Ph. D.
- The craft of doing Research
- Self-help and peer support group.

UNIT-II SAMPLING DESIGN:

- Need for sampling, Fundamental Definitions, Important Sampling Distributions
- Steps in Sampling Design, Census and Sample survey,
- Criteria for Selecting a Sampling Procedure, Characteristics of a good Sample Design.
- Statistical Approach to Sampling: Central limit Theorem, Sadler's A-test
- Concept of Standard Error, Sample size and its Determination
- Determination of Sample size through the Approach Based on Bayesian Statistics.

UNIT-III DATA ANALYSIS AND INTERPRETATION:

- Inferential Statistics Skew ness
- Z-T Test – Correlation
- Regression – Linear & Non-Linear
- Chi Square Test Time Series analysis
- Sociometry
- Statistical Packages – SPSS
- Statistical Graphics Etc.

UNIT-IV BIBLIOMETRICS, SCIENTOMETRICS & INFORMATICS:

- Bibliographic Coupling

- Obsolescence
- Citation Analysis
- Webometrics
- Citation Studies
- Info metrics
- Scientometrics

SELECTED READING LIST:

1. BUSHA (Charles H) and HARTER (Stephen P).Research Methods in Librarianship: Techiques and Interpretation.New York: Acadamic Press, 1980.
2. BUSHA (Charles H): ResearchMethods.Ill Encyclopedia of Library and Information Science.V01.25 254-293; Kent,Allen and Harold ed. New York:Marcel Dekker.
3. GOPAL (M.H.): An IntroductiontoResearchProcedure in Social Science. Bombay: Asia, 1964.
4. GROGAN (D.T.): Science and Technology and Information Literature.
5. GOODE (William) and HAIT (Paul K): Methods in Social Research. New York:Mac-graw Hill, 1952.
6. KUMAR (Krishna): Research Methods in Library and Information Science.New Delhi: Vikas, 1992.
7. MAURICE (B.Line): Library Surveys: An Introductionto the use,planning, procedure and presentationof surveys.2nded.London: Bingley, 1982.
8. RAVICHANDRA RAO (I.K.): Qualitative Methods forLibrary and InformationScience.NewDelhi:Wiley Eastorn,1985.
9. SEETARA. CurrentResearch in library and information science.Y.K.Publishers.
10. Solomon (I.L.) BasicResearch Methods in Social Sciences, 1989
11. Basic Statisticsfor Librarians, 1988.
12. STEVENS (Ronald E): Rersearch methods in LibrarianshipLondon: Bingley, 1971
13. WARD (Patricia Layzell):IntroductoryGuide to Research in Library and information studies in the UK London Library Associations, 1975.
14. YOUNG (Pauline V): ScientificSocialSurvey and Research.New Delhi: Prentice Hall, 1984.
15. SEHGAL (R.L.): Applied StatisticsforLibraryScience ResearchVol.1 & 2, EssEss publication.
16. RAVICHANDRA RAO: Quantitative Methods forlibrary and Information Science, Wiley eastern Ltd.
17. GUPTA (S.P.): Statistical Methods.
18. RAO (I.K.) Workshop on Informatics & Scientometrics, ISI, Banglore.
19. Nick Moore & Martin Hesp. The Basics of writing reports etc.London: Bingley, 1985.
20. Simpson, J.L. Basicresearch methods in social sciences. New Delhi. 1969.
21. Powell, Ronald R. Basicresearch methods for librarians. Nor-Wood: Ablex, 1985.
22. Mary Lee, Bundi. Reader in Research methods for librarianship: Greenwood Press.

SARDARPATELUNIVERSITY
M. PHIL IN LIBRARY & INFORMATION SCIENCE
[EFFECT FROM: 2017-2018]
SEMESTER: II

PAPER – IV

- Dissertation / Project