

DSC 1

Research Methodology

60 Hours
(45hrs Lect. + 15hrs Tut.)

Course Title & Code	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-Requisite of the Course (if any)
		Lecture	Tutorial	Practical/ Practice		
DSC 1: Research Methodology	4	3	1	0	BLISc	-

Course Objectives

Students will master research fundamentals and methodologies tailored for Library and Information Science. The course focuses on selecting data collection tools, applying advanced statistical techniques using SPSS, and developing professional research reports that adhere to ethical standards and citation guidelines.

Learning Outcomes

After completing this course, students will be able to:

- ☞ Apply the various statistics and statistical techniques to do research.
- ☞ Select appropriate data collection tool to gather data and use statistical methods to analyze the data and
- ☞ Use statistical package such as SPSS to data curation and data analysis.
- ☞ Create research report using standards and tools.

UNIT I: Introduction to Research

10 Hours

- ☞ Fundamentals of Research: Concept, Meaning, Need, Types and Process of Research
- ☞ Research Problem
- ☞ Review of Literature
- ☞ Research Design
- ☞ Formulation of Hypotheses

UNIT II: Research Methods and Data Collection **10 Hours**

- ☞ Historical, Survey, Experimental, Case Study and Delphi Method
- ☞ Scientific Research, Statistical Research, etc.
- ☞ Various Approaches to Research
- ☞ Data Collection Methods, Sampling and Techniques

UNIT III: Statistical Tools and Techniques **15 Hours**

- ☞ Measures of Central Tendency and Dispersion
- ☞ Correlations and Regression, Factor Analysis, ANOVA, etc.
- ☞ Parametric and Nonparametric Tests
- ☞ Testing of Hypotheses
- ☞ Data Presentation and Visualization
- ☞ Application of Statistical Packages
- ☞ Metric Studies

UNIT IV: Citation Styles and Report Writing **10 Hours**

- ☞ Report Writing
- ☞ Citation Styles and Reference Management System
- ☞ Research Ethics and Plagiarism

Essential Reading

- ☞ BUSHA (C) and HARTER (SS). Research methods in librarianship: techniques and interpretation. Academic Press, Orlando. 1980.
- ☞ BUSHA (CH). Research methods in librarianship. Academic Press, New York. 1990.
- ☞ CHARLES (H) and others. Research methods in librarianship: techniques and interpretations. Sage, New Delhi. 1993.
- ☞ CRESWELL (JW) and CRESWELL (J. David). Research design: qualitative, quantitative, and mixed methods approaches. Sage Publications, California. 2022.
- ☞ GOODE (WJ) and HATT (PK). Methods in social science research. McGraw-Hill, New Delhi. 1986.
- ☞ KOTHARI (CR) and GARG (GAURAV). Research Methodology: Methods and Techniques. New age Int. Pub., 2023
- ☞ POWELL (RR) and SILIPIGNI (CL). Basic research methods for librarians. Ed. 4. Libraries Unlimited, Westport. 2004.

Suggested Reading

- ☞ DENZIN (Norman K.) and LINCOLN (Yvonna S.) Eds. The SAGE Handbook of Qualitative Research. Sage Publications, 2017
- ☞ DEVAKUMAR (G). Research methodology: A Step-by-Step Guide to Research Methods, Analysis and Report Writing with Case Studies. National Academic Press, 2025.
- ☞ GOON (AM). Fundamentals of statistics. World Press, Calcutta. 2000.
- ☞ GREENFIELD (T). Research methods: guidance for postgraduates. Hodder Arnold, London. 1996.
- ☞ KRISHAN KUMAR. Research methods in library and information science. Rev. Ed. Har Anand Publications, New Delhi. 1999.
- ☞ LANCASTER (FW) and POWELL (RR). Basic research methods for librarians. Ablex
- ☞ SINGH (SP). Research methods in social sciences: a manual for designing questionnaires. Kanishka, New Delhi. 2002.