RESEARCH METHDOLOGY

The studies have conducted with a broad approach based on common industry specifications and other standard research works, using a variety of research methods including surveys, participant observation, usability testing, ethnographic studies, focus groups and transaction log analysis.

Surveys and questionnaires represent one of the most inexpensive and easiest methods of collecting user opinions and attributes. The survey has been conducted through email and personal data collection mode. Questionnaire has formulated based on the Question for User Interface Satisfaction (QUIS) and other standard research works that are relevant to the Use of e-Resources. Questionnaire has been sent to various persons in various capacities in selected Indian universities and higher learning institutions of Punjab, different kind. The specific research questions include.

Methodology has its own importance in scientific investigation, because objectivity in any research investigation cannot be obtained unless it is carried out in a very systematic and planned manner. Scientific investigation involves careful and proper adoption of research design, use of standardized tools and test, identifying adequate sample by using appropriate sampling techniques, sound procedures for collecting data and then after careful tabulation of the data and the use of appropriate statistical techniques for analyzing the data. For this study the investigator used questionnaire, personal and telephone interviews. Proposed methodology during the tenure of the research work:

UNIVERSE OF THE STUDY:

The universe for the study on Use of e-Resources will be universities, colleges and research organizations in the Punjab State who have computerized and digital libraries.

SOURCE OF DATA;

Primary Sources Readers and Librarians
Secondary sources Review of Literature from (UN) published sources, Published and unpublished documents

SAMPLE DESIGN:
The sample design for the proposed study will be purposive random sampling. In the Proposed study the libraries which are computerized and digitalized will be considered as selective purposive sampling.

**SAMPLE SIZE;**

The Sample size for present study is as follow:

- Librarian and Library Professionals 30
- Academician 50
- Students and General users 150

**TOOLS FOR DATA COLLECTION;**

Interview schedule and Questionnaire will be main tool for data collection of proposed study.

**DATA PROCESSING AND TABULATION**

After coding, collected data will be used for statistical analysis under SPSS package. Presentation of the data shall be made in form of graphs and diagrams to make it users friendly.

- A Questionnaire will be designed and tested with pilot survey of Research Scholars and Scientists to assess their information needs and utilize the information for improving the questionnaire.

- Observation will be restored to whenever there is a need.

- Interviews will be organized, depending on the situation, selectively with Research Scholars and scientists to be aware of their problems, difficulties, expectations, etc.

- The Data will be collected through postal mode, e-mail and personal visits.

- The Collected data through the Questionnaire will be sorted out, organized and tabulated by using statistical methods, tables and percentages, data collected through observation will be used for the findings.
• Hypotheses will be tested with the results generated by the analysis.

• Suggestions will be made based on the concrete findings.

The collected data were systematically analyzed after different operations like editing, transcription, classification and coding and interpreted on the basis of objectives formulated. Description about the analysis of data are tabulated and presented. Based on the analysis of data, findings, and some suggestions have been given. This problem for the presence study III entitled "Use of e-Resources by the Faculty and Research Scholars of the Universities Libraries in Punjab State: An analytical study “by the Librarian and Library staff, Faculty and Research Scholars of Universities in Punjab.”