Information Technology (IT) has brought information revolution with tremendous opportunities and competitive advantages. The Libraries being the information based organizations are also deeply affected by the changes brought by the Information revolution. For Libraries of Science and Technology (S&T), IT has also brought unlimited opportunities and opened the new application areas with unlimited use, great promise, high expectations, and unimaginable dimensions for them. Though it is observed that the use of IT in these libraries is not uniform. It varies from library to library. There are several organizational and perceptual factors responsible for this variation. The objective of this study was to understand the factors responsible for this variation.

In its Chapter 1, an overview of the study, statement of the problem, objective of the study, its scope and limitations, need & significance, its organization are given. In its Chapter 2, a brief description about Information technologies, and S&T Libraries is given. The Chapter 3, contains a review of literature on Basic Goal of S&T Libraries, their Information Systems, Management process, Application of IT, System Approach, System Analysis, SWOT Analysis, Concept of change management, Use of IT in S&T Libraries, Socio-Cultural & Technological Environment, Factors of Success and Failure of IT Applications, Structure of a computer-Information System (IS) are given. In chapter IV the conceptual frame of the study & Criteria for evaluation are given. In this chapter the Assumption, Variables, Basic Frame of the Study, Derivation of Null Hypothesis, Model Criteria, Conceptual Frame Work, Nolan’s Stage Hypothesis, Matrix for Library activities, Components of IT based Information system in S&T libraries, IT based Information System (IS) Development Life Cycle are given.

The Research Design is given in Chapter V. In Chapter VI, the Organizational study Containing a brief overview about the 75 organizations undertaken in the study and their Resources Data Matrix are given. In Chapter VII, Study of Organizational Culture is described which also contains Statistical analysis of Statements, testing of Hypothesis using Chi-square Significance. In Chapter VIII, the Conclusion and recommendations, and areas of further research are given.

In the end of the thesis, the Bibliographic references cited in the study are given. In Appendix.1, the Questionnaire, & Organization Data Sheet are given. A brief bio-data of the author is also given in Appendix. 2.