# CONTENTS

## Chapter – I

**Introduction**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 Introduction</td>
<td>1-26</td>
</tr>
<tr>
<td>1.1 Landmarks in Technical Education in India</td>
<td></td>
</tr>
<tr>
<td>1.2 Growth and Development of Technical Education in Karnataka</td>
<td></td>
</tr>
<tr>
<td>1.3 Role of Libraries in Engineering Colleges</td>
<td></td>
</tr>
<tr>
<td>1.4 Application of Information Technology in Libraries</td>
<td></td>
</tr>
<tr>
<td>1.5 Need for the Study</td>
<td></td>
</tr>
<tr>
<td>1.6 Statement of the Problem</td>
<td></td>
</tr>
<tr>
<td>1.7 Objectives of the Study</td>
<td></td>
</tr>
<tr>
<td>1.8 Formulation of Hypotheses</td>
<td></td>
</tr>
<tr>
<td>1.9 Methodology</td>
<td></td>
</tr>
<tr>
<td>1.9.1 Questionnaire</td>
<td></td>
</tr>
<tr>
<td>1.9.2 Pilot Study</td>
<td></td>
</tr>
<tr>
<td>1.10 Scope and Limitation of the Study</td>
<td></td>
</tr>
<tr>
<td>1.11 Chapterization</td>
<td></td>
</tr>
<tr>
<td>1.12 Conclusion</td>
<td></td>
</tr>
<tr>
<td>References</td>
<td></td>
</tr>
</tbody>
</table>

## Chapter – II

**Review of Literature**

<table>
<thead>
<tr>
<th>Section</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 Introduction</td>
<td>27-80</td>
</tr>
<tr>
<td>2.1 Library Networks in USA and UK</td>
<td></td>
</tr>
<tr>
<td>2.2 Networks in Australia</td>
<td></td>
</tr>
<tr>
<td>2.3 Library Networks in India</td>
<td></td>
</tr>
<tr>
<td>2.4 Research Libraries Network</td>
<td></td>
</tr>
<tr>
<td>2.5 Scientific and Information Network</td>
<td></td>
</tr>
<tr>
<td>2.6 University Library Networks</td>
<td></td>
</tr>
<tr>
<td>2.7 Other Networks</td>
<td></td>
</tr>
<tr>
<td>2.8 Conclusion</td>
<td></td>
</tr>
<tr>
<td>References</td>
<td></td>
</tr>
</tbody>
</table>
Chapter- III
Development of Library and Information Networks in India

3.0 Introduction
3.1 Library networking
3.2 Development of networks in India
3.2.1 Communication Networks
   a) I-NET
   b) INDONET
3.2.2 Infrastructural networks
   a) ERNET
   b) GIAS/VSNL
   c) NICNET
3.2.3 Library Networks
   a) ADINET
   b) BONET
   c) CALIBNET
   d) DELNET
   e) INFLIBNET
   f) MALIBNET
   g) MYLIBNET
   h) PUNENET
   i) Other Library Networks
3.2.4 Other Application networks
   a) CSIRNET
   b) SOFTNET
   c) Others
3.2.5 Current status of library networks in India
3.3 Conclusion
References

Chapter- IV
Analysis and Interpretation of Data

4.0 Introduction
4.11 Year of Establishment of Engineering Colleges
4.12 Type of Institutions
4.13 Courses Offered (Graduate Programmes)
4.14 Post Graduate Degree Courses
4.15 Personnel working in Engineering Institutions Libraries
4.151 Academic Qualifications of the Librarians
4.152 Professional Qualifications of the Librarians
4.153 Library Collection
4.154 Printed Books
4.155 Current Periodicals
4.156 Back Volumes of Periodicals, reports, and standards
4.157 Electronic resources of information
4.158 Users
4.16 Physical Facilities
4.17 Provision for reference, reading, stack room and digital library
4.18 Provision for future expansion of library building
4.19 Financial Resources
4.2 Network Pre-requisites
4.21 Library Automation
4.22 Computer and its accessories
4.23 Software facilities
4.24 Library Software Packages
4.25 Proposed plan to Automate Libraries
4.26 Activities covered in the automation
4.27 Network facilities
4.28 Library Websites
4.29 Network Configurations
4.30 Bibliographic formats used
4.4 Importance of Networking of College Libraries
4.41 Libraries having Internet Connectivity
4.42 Services Offered
4.43 Automation of library functions
4.5 Personnel skills and competencies
4.6 Library Membership to network
4.7 Willingness to participate in the Proposed library network
4.8 Librarians feedback to propose library network of the college libraries under VTU
4.9 Conclusion
References
Chapter - V
Proposed Network Model for Engineering College Libraries

5.0 Introduction
5.1 SWOT Analysis of Engineering College Libraries
5.2 Network approach to information sharing
5.3 Nodal Center
5.4 Organisation of network
5.5 Proposed network model for engineering College Libraries in Karnataka State
5.6 The Governance
5.7 Manpower
5.8 Finance
5.9 Pre-requisite for successful implementation of the proposed network
5.9.1 Requirement for the nodal center
5.9.2 Requirement for the individual libraries
5.10 Network based Information services
5.11 Benefits of the network
5.12 Role of VTU
5.13 Criteria for success of network
5.14 Issues to be considered
5.15 Conclusion

Chapter - VI
Findings, Suggestion and Conclusion

6.0 Introduction
6.1 Findings of the Study
6.2 Suggestions
6.3 Conclusion
6.4 Future Area of Research

Selected Bibliography

Appendices

A. Questionnaire
B. Abbreviations used in the study
C. List of Affiliated Colleges of VTU