SKILLS TO USE OF THE UNIVERSITY LIBRARY DIGITAL SOURCES BY THE RESEARCHERS AND FACULTY MEMBERS IN COIMBATORE DISTRICT: A STUDY

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ABSTRACT

This paper examines with an objective to ascertain as to what extent e-resources are being used by Researchers and Faculty members in Coimbatore based universities. The study finds that the Researchers and Faculty members used e-resources mainly for research and Academic purposes. The study shows that majority of the users were used e-Journals and between the age group of 30 years included M. Phil/PhD scholars in Coimbatore universities.

Keywords: Use Pattern, Digital Sources, e-journals, Databases, Internet

INTRODUCTION

Traditional libraries were dominated by print publications and the access mechanisms were also by-and-large manual. The paradigm shift from stand-alone libraries to library and information networks, available via the Internet, can provide end-users with a seamless connection to Internet-based services. The development of new technology makes direct access to information easier for users, and, while information skills are required to collect and present that information, in the future there is likely to be less of a role for information workers as intermediaries between users and information sources. In fact, there is a paradigm shift from a parent-child relationship between information provider and user to an "adult-adult" relationship. While new formats and mechanisms are being developed to cope with this rapidly changing environment, the existing gap between the generation and use of information is further widening in the present situation. The major aim of user education is therefore to widen the use of a range of library resources, which will enable academics to improve their teaching and research, and students to learn more and achieve better results in their work. In this context, training and retraining the end-users in the use of IT-based resources and services, such as e-mail, ftp, telnet, www, browsers, search engines, OPACs, databases, system software, application software, electronic journals, computer conferences, scholarly discussion lists, mailing lists, Usenet newsgroups, websites, CDs, and DVDs are becoming an integral part of a library's user education program. This is where strategic planning comes in, in order to develop a comprehensive user-education and training program at the national level.
REVIEW OF LITERATURE

Joteen Singh et al. (2009)^1 conducted a survey “Use of Internet Based e-resources at Manipur University”. The survey describes on the use of the electronic information focusing on the Internet services by the users of Manipur University Library. It also examines the utilization, purpose, difficulties and satisfaction level of users about Internet based e-resource services provided by the library. Finds that low speed internet access, erratic power supply and lack of required full text journals are problems with regard to the use of internet based e-resources. Although it is well known that internet is very useful source of information, adequate steps need to be taken to provide the requisite basic infrastructure for fast internet access followed by resource availability and training.

Asemi (2005)^2 surveyed the search habits of Internet users at Isfahan University of Medical Sciences (MUI) in Iran, and found that training would help them obtain useful and relevant information.

Rehman and Ramzy (2004)^3 conducted a study on the Internet use by health professionals at the health sciences centre (HSC) of Kuwait University. The study showed that 92.1 percent of the respondents accessed Internet from their office, while 73.2 percent also accessed it from home. Another 28.3 percent also used the HSC Library for accessing the Internet. The study indicated that 80.3 percent of the respondents used Internet daily, 15 percent used it once a week and 2.5 percent used it once a month. While 88.2 percent of the respondents felt that the Internet provide better access to health sciences information, 77.2 percent indicated that through the Internet they had better professional contacts, and 57.5 percent stated that with the use of Internet they were able to use different channels of communication for their patient care and research.

Dong (2003)^4 emphasized the evaluation of the Internet. He reported the examination of the using the Internet resources and the evaluation of their usefulness from the Chinese students' and academics' point of view. Osorio (2001)^5 showed that in general the current design of home pages for science-engineering libraries contain many of the elements found in home pages of academic libraries. Among the characteristics found are images, screen lengths, colours, number and types of links, and link headings. The content of these websites was also analysed and summarized.

Hölscherl and Strube (2000)^6 conducted a study about Web search behavior of Internet experts and newbies. They found the differential and combined effects of both Web experience and domain knowledge. Ormes Sarha and Dempsey Lorcan (1995)^7 identified that 93 percent of all authorities using the Internet use the common internet information access tools like www, and Gopher (91 per cent) use e-mail. Reference staff are the most users of Internet services, followed by IT staff, and senior management. And the actual network behaviour most heavily reported was exploration and experimentation, followed by reference work.

Bane and Melheim (1995)^8 investigated the use of Internet by academics. A questionnaire was sent through the Internet to 231 randomly selected discussion groups. A total of 15,361 questionnaires were returned through e-mail. Results of the survey disclosed that personal e-mail was utilized extremely often, more than once a week by nearly 90 percent of the respondents. Discussion groups were accessed more than once a week by 75 percent of the respondents. Electronic journals were accessed far less frequently more than once a week by 23 percent of the respondents. The survey also disclosed that many academics were still not
fully aware of available Internet resources and their applications. Many studies in developing countries have also confirmed these findings. They noted that most of the libraries in Malaysia have yet to utilize the full potential of the Internet, although it has been available for the last several years.

OBJECTIVES

The changing information needs of the users and the facilities and services provided by the university libraries necessitates the researcher to assess the information needs and access pattern of the researchers in various universities of Coimbatore city. By keeping this view, the following objectives are framed:

1. Aims at identifying the prevailing scholarly e-resources information in the digital environment in the universities of Coimbatore.
2. To identify the library use and level of expertise in information technology and library service.
3. To identify methods of acquiring knowledge of information.
4. To find out the internet application for searching information.

METHODOLOGY

The type of research is descriptive latest and normality survey used simple random sampling method. A structured questionnaire was designed for the survey which was randomly distributed among 800 users of the library comprising of research scholars pursuing their Ph.D., M.Phil degree and faculty members of seven Universities situated in Coimbatore city of Tamil Nadu State, India and 548 (68%) completed questionnaires were received. The questionnaire has been used to obtain the needed data covering the objectives of the study. The researcher also has used interview schedule for librarians of the Universities surveyed and also observed the environment by personal visit to collect the data.

LIMITATION

The study covers only the full time scholars and the faculty members working in the departments of the universities that are surveyed located in Coimbatore city only.

STUDY UNIVERSITIES

<table>
<thead>
<tr>
<th>Name of the University</th>
<th>Type of the University</th>
<th>Management</th>
<th>Year of Establishment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amirtha university</td>
<td>Deemed</td>
<td>Private</td>
<td>1994</td>
</tr>
<tr>
<td>Anna university of Technology</td>
<td>Affiliating</td>
<td>Government</td>
<td>2007</td>
</tr>
<tr>
<td>Avinashilingam university</td>
<td>Deemed</td>
<td>Aided</td>
<td>1975</td>
</tr>
<tr>
<td>Bharathiar university</td>
<td>Affiliating</td>
<td>Government</td>
<td>1982</td>
</tr>
<tr>
<td>Karpagam university</td>
<td>Deemed</td>
<td>Private</td>
<td>1995</td>
</tr>
<tr>
<td>Karunya university</td>
<td>Deemed</td>
<td>Private</td>
<td>1980</td>
</tr>
<tr>
<td>Tamil Nadu Agricultural University (TNAU)</td>
<td>Affiliating</td>
<td>Government</td>
<td>1907</td>
</tr>
</tbody>
</table>
It is found from the above table that the Bharathiar University, Anna University of Technology and Tamil Nadu Agricultural Universities are affiliating Universities. Four Universities viz., Amirtha, Avinashilingam, Karpagam and Karunya are the Deemed Universities. Among the universities, Karunya University is the only residential university under study. Three Universities Amirtha, Karpagam and Karunya are under the control of private management. Three Universities viz Bharathiar (UGC), Anna (AICTE) and TNAU (ICAR) are under the control of Government of Tamil Nadu. Among the universities under study, TNAU is the very oldest university established in the year 1907. Next to this, Avinashilingam University was established in the year 1975. Recently in the year 2007 Anna University, Coimbatore was established.

Table 2

<table>
<thead>
<tr>
<th>Collection</th>
<th>Amirtha</th>
<th>Anna</th>
<th>Avinashilingam</th>
<th>Bharathiar</th>
<th>Karpagam</th>
<th>Karunya</th>
<th>TNAU</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Books</td>
<td>10000</td>
<td>-</td>
<td>100</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
<td>5000</td>
</tr>
<tr>
<td>E-Journals</td>
<td>200</td>
<td>-</td>
<td>1000</td>
<td>5000</td>
<td>70</td>
<td>5000</td>
<td>1000</td>
</tr>
<tr>
<td>CD/DVD</td>
<td>300</td>
<td>1000</td>
<td>3000</td>
<td>1000</td>
<td>1517</td>
<td>1000</td>
<td>1000</td>
</tr>
</tbody>
</table>

Collection development digital information resources of the institutions under study are identified and tabulated. From the Table 2, 10000 is the maximum collection at Amirtha University and it is 5000 each at Bharathiar, Karunya and TNAU libraries. Regarding the collection of e-Journals, a maximum of 5000 e-journals are available at Bharathiar and Karunya Universities. With regard to the CDs/DVDs collection, it is 3000 at Avinashilingam University and 1000 each at Anna, Bharathiar, Karunya and Tamil Nadu Agricultural Universities.

It is inferred from the table that all the surveyed universities are maintaining the e-resources except Anna University and Karpagam University as they are possessing only CDs/DVDs. It is quite interesting to note that the Amirtha University is possessing 10000 e-books while Bharathiar, Karunya and Tamil Nadu Agricultural Universities were providing access to 5000 e-books each. It is also found that the surveyed universities are subscribing good number of scholarly e-Journals, particularly Bharathiar and Karunya with 5000 e-journals each.
Study Sample:

Table 3

University-wise distribution of respondents and their disciplines

<table>
<thead>
<tr>
<th>Name of the University</th>
<th>Number of Respondents</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>University-wise distribution of respondents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amirtha</td>
<td>82</td>
<td>14.96</td>
</tr>
<tr>
<td>Anna</td>
<td>45</td>
<td>8.21</td>
</tr>
<tr>
<td>Avinashilingam</td>
<td>58</td>
<td>10.58</td>
</tr>
<tr>
<td>Bharathiar</td>
<td>192</td>
<td>35.10</td>
</tr>
<tr>
<td>Karpagam</td>
<td>70</td>
<td>12.73</td>
</tr>
<tr>
<td>Karunya</td>
<td>41</td>
<td>7.48</td>
</tr>
<tr>
<td>TNAU</td>
<td>60</td>
<td>10.94</td>
</tr>
<tr>
<td>Discipline-wise distribution of respondents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>116</td>
<td>20.95</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>138</td>
<td>25.32</td>
</tr>
<tr>
<td>Science and technology</td>
<td>294</td>
<td>53.73</td>
</tr>
<tr>
<td>Total</td>
<td>548</td>
<td></td>
</tr>
</tbody>
</table>

It is found from the above table, that the maximum of 192 (35.10%) responses were received from the Bharathiar University. Next to this 82 (14.96%) from Amirtha University and 70 (12.73%) from Karpagam University. 45 (8.21%) responses were received from Anna University and 41 (7.48%) from Karunya University.

It is inferred from the analysis that, among the responses, the majority are from Bharathiar University (35.10%) while the remaining universities consist less than 15 percent of the respondents. Karunya University is having the minimum number of respondents.

Subject wise distribution of responses shows that 20.95%, 25.32% and 53.73% of the respondents from humanities, social science, and science & technology disciplines respectively. However, the responses received from science & technology discipline were more as compared to humanities and social science disciplines.

Table 4

Gender and Age-wise distribution of the respondents

<table>
<thead>
<tr>
<th>Gender-wise Distribution</th>
<th>Faculty</th>
<th>Ph.D</th>
<th>M.Phil</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>48 (16.22)</td>
<td>78(26.35)</td>
<td>170(57.40)</td>
<td>296(54.01)</td>
</tr>
<tr>
<td>Female</td>
<td>18(6.08)</td>
<td>86(34.13)</td>
<td>148(58.73)</td>
<td>252(45.99)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age-wise distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below 30</td>
</tr>
<tr>
<td>30-50</td>
</tr>
<tr>
<td>Above 50</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

As they are the direct consumers of services rendered, this contributory part of the study has been confined on users of the 548 users under consideration, 296 (54.01%) are male researchers while the remaining 252 (45.99%) are female. As stated above the users’ community comprising of both male and female users includes of 66 faculty members (12.04%), 164 (29.93%) PhD researchers and 318 M.Phil scholars (58.03%). It is inferred
from the analysis that majority of the respondents are M.Phil scholars.

Regarding the age factors, majority of the users are found to be below 30 years i.e. 400 respondents (72.99%) while, 25.5 percent (140) are belong to the age group of 30-50 years. Only 8 (1.46%) of the faculty members are above 50 years. It is inferred that the negligible group of elders are under the age group of above 50 years.

Table 5
Respondents library use and level of expertise on IT and library services

<table>
<thead>
<tr>
<th>Library use</th>
<th>No. of</th>
<th>percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>To go through the Printed</td>
<td>412</td>
<td>75.18</td>
</tr>
<tr>
<td>Version of Books and Journals</td>
<td>367</td>
<td>66.97</td>
</tr>
<tr>
<td>For research and teaching</td>
<td>285</td>
<td>52.01</td>
</tr>
<tr>
<td>Library as Gateway for locating Information</td>
<td>175</td>
<td>31.93</td>
</tr>
<tr>
<td>To develop information literacy on e- resources</td>
<td>136</td>
<td>24.82</td>
</tr>
<tr>
<td>for academic jr/books and database</td>
<td>312</td>
<td>56.93</td>
</tr>
<tr>
<td>Some</td>
<td>78</td>
<td>14.23</td>
</tr>
<tr>
<td>Complete Novice</td>
<td>161</td>
<td>29.38</td>
</tr>
<tr>
<td>Better</td>
<td>30</td>
<td>5.47</td>
</tr>
<tr>
<td>Opera</td>
<td>17</td>
<td>3.10</td>
</tr>
<tr>
<td>Others</td>
<td>250</td>
<td>45.62</td>
</tr>
<tr>
<td>Blog</td>
<td>186</td>
<td>33.94</td>
</tr>
<tr>
<td>Lycos</td>
<td>175</td>
<td>31.93</td>
</tr>
<tr>
<td>Federated Search Engines</td>
<td>170</td>
<td>31.02</td>
</tr>
<tr>
<td>AltaVista</td>
<td>82</td>
<td>14.96</td>
</tr>
<tr>
<td>Hot Bot</td>
<td>77</td>
<td>14.05</td>
</tr>
<tr>
<td>Ask.com</td>
<td>60</td>
<td>10.94</td>
</tr>
</tbody>
</table>

Table 5 expresses the respondents’ library use with different purposes. According to the usability, the purpose will be satisfied. It is found from the above table that 75.18 percent of the users are depending upon the library to go through the printed version of journals and
books. Next to this, 367 respondents (66.97%) are using the library for research and teaching preparation work. 52 percent of the respondents are of the opinion that they are visiting the library for locating information.

The above table explains the various components related to e-resource access pattern of the respondents. While enquiring about the level of expertise on using systems for accessing the e-resources, majority of the respondents (56.93 percent) are of the opinion that they are new to the environment to use the e-resources. 29.38% of them are having expertise in accessing the resources.

It is found from the above table that majority of the respondents (58.94 percent) is using the Internet Explorer. Next to this, Mozilla Firefox by 20.44 percent of the respondents and 10.22 percent of the respondents are using Netscape Navigator as the browser for their interest searching.

Regarding the search engines, 66.61 percent of the respondents are using Google and 45.62 percent of the respondents are using the Yahoo. 33.94 percent of the respondents use the blogs, 31.93 percent of the respondents are using Lycos and 31.02 percent of them are using Federated Search Engines.

<table>
<thead>
<tr>
<th>Methods acquiring knowledge of e-resources, Access pattern and place of accessing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods of acquiring knowledge of e-resources</td>
</tr>
<tr>
<td>1. Trial and Error method</td>
</tr>
<tr>
<td>2. Formal Training</td>
</tr>
<tr>
<td>3. From Colleague</td>
</tr>
<tr>
<td>4. Training at Workshop</td>
</tr>
<tr>
<td>5. Attending workshop</td>
</tr>
<tr>
<td>Access Pattern of e-resources</td>
</tr>
<tr>
<td>1. Daily</td>
</tr>
<tr>
<td>2. Once a week</td>
</tr>
<tr>
<td>3. Thrice a week</td>
</tr>
<tr>
<td>4. Once a month</td>
</tr>
<tr>
<td>5. Occasionally</td>
</tr>
<tr>
<td>6. Not at all</td>
</tr>
<tr>
<td>Place of Accessing e-resources</td>
</tr>
<tr>
<td>1. Department</td>
</tr>
<tr>
<td>2. University Library</td>
</tr>
<tr>
<td>3. Home</td>
</tr>
<tr>
<td>4. Internet Café</td>
</tr>
<tr>
<td>5. Others</td>
</tr>
</tbody>
</table>

It is found that 32.85 percent of them are doing trial and error method for accessing the e-resources. 24.82% of the researchers are getting knowledge by attending formal training and 39.23% of them from their colleagues. 30.11 percent of the respondents acquired the knowledge of e-resources through training in their work place. 22.99 percent of the respondents are getting their e-resources themselves by workshops arranged by the researchers.
departments with collaboration of library.

The above table shows that 71.35 percent of the respondents are accessing the e-resources daily. 53.10 percent of the respondents using the resources once in a week. 22.81 percent of them are using the resources thrice a week. A maximum of 75.36 percent of the respondents are using their department for browsing. 41.06 percent of them are using the library for internet surfing centre. 31.93 percent of the respondents are using the internet café centre for accessing the e-resources.

FINDINGS

1. All the universities have collected electronic resources. Except the newly established university.
2. Bharathiar and Karuniya universities are subscribing the scholarly electronic journals.
3. Science and technology resources are more than the Humanities and Social Science journals.
4. Nearly 60% of the research scholars below 30 years. Only 8 faculty members’ age is above 50. Age is not a criteria for carrying research work.
5. 75% of the researchers use the library for the purpose of go through the printed books and journals. 66.97% of them use library for their research and teaching purpose.
6. More than 50% of them use the library as a gateway of information.
7. Majority of the respondents (56.93%) of them new to use the e-resources. However, 29.4% of the respondents have better skill to use of electronic sources.
8. Internet explorer is the most frequently (58.9%) used internet browser than other browsers.
9. Among the search engines, Google is one the most frequently (66.61%) used search engine. Similarly 45.62% of them used the yahoo.
10. Three forth of the researchers (75%) do not have any formal training for access of e-resources.
11. Above 70% of the study samples use the e-resources daily.
12. 75% of the respondents access the resources in their research departments itself.

CONCLUSION

E-resources are playing a vital role in the present Academic Research activities of higher educational sectors. It is a essential duty of the educational institution authorities to provide relevant & concerned e-resources for the development of academic community. This study includes the user pattern of e-resources for Coimbatore universities.

REFERENCES


3. Rehman Sajjad Ur. and Vivian Ramzy Internet use by health professionals at the Health Science Centre of Kuwait University. Online Inform. Rev. Vol.28, No:1,


