

**USE OF E-RESOURCES: A STUDY WITH SPECIAL REFERENCE TO S. K. PATEL
COLLEGE OF ENGINEERING, VISNAGAR (GUJARAT)**

Dinesh H. Parmar

Ph.D Research Scholar,
Mewar University, Chittorgarh.(Rajasthan),

DR. M. G. Patel

Head/Co-ordinator,
Dept. of Lib. & Inf. Science, HNG University Patan (Gujarat)

ABSTRACT

This paper is an attempt to study the use of e-resources, its impact on the collection of e-resources its awareness among the users, and the places where the users are accessing these resources. The present study was designed to find out the necessity and usage of e-resources by the undergraduate, postgraduate students and faculty members undertaking the S.K College of Engineering, Visnagar (Gujarat), out of which 82 percent responded to this survey. The present investigation gives an indication of the range of uses of e-resources by Engineering undergraduate, postgraduate students and faculty members.

Key Words : Electronic Resources, Digital Library, E-journals, Consortia, Special References, Engineering College, Gujarat

INTRODUCTION

Our world in 21st century is replete with information which directly and indirectly influences our lives. For long period of time it has been a tendency of human being to preserve information and share it with others. This tendency ultimately makes information permanent. In Today`s world internet, which is rightly a milestone in the history of information, is the best way to share and preserve information easily. The information which is available on internet can be easily accessible through e- resources and these e resources are very important for the advancement of the academic world.

In earlier times libraries were considered to be the best place to preserve the books and access information. People had to visit the library and they have to search out the appropriate books from the number of books. This takes lots of time and human labor as well. But today the scenario has been changing. Using technology libraries have reached at every door steps. Just one click can open the whole world of information. With growing popularity of e resources libraries are leaving behind their traditional traits and absorbing modern computer and internet technology. It is very important in this technological world for the library to be updated and for this library should be redesigned.

Sankalchand Patel College of Engineering, Visnagar (Gujarat)

Resources at a Glance: Sankalchand Patel College of Engineering was established in the year 1999 by Shri Bholabhai C.Patel, the chairman of Nutan Sarva Vidhyalay Kelvani Mandal VISNAGAR. The Institute is affiliated to Hemchandracharya North Gujarat University Patan and Gujarat Technological University, Ahmedabad and also approved by all India Council for Technical Education AICTE (New Delhi). S. K. College of Engineering, Visnagar possesses a well-equipped and rich library having a separate reading room located on the second floor of the building. The atmosphere of the library is serene and noiseless which helps students for reading and research. At present, the library contains more than 27000 books comprising almost 8700 titles on various subjects of engineering, business administration and computer application. In addition, over 21000 E-Resources (E-Journals, E-Books, and E-Magazine etc.) and one hundred and sixty magazines and journals (Print Copy) have been subscribed as per the norms laid down by AICTE. The library also provides free internet service to the students. The entire collection of the library is computerized enabling issue/return function automatically by using library automation software (ALICE for windows) with barcode system. Computer user terminals (OPAC Facility) are also available in library to search the books author-wise/ title-wise/ by keyword. [1].

OBJECTIVES OF THE STUDY

This study aims to achieve the following objectives: To familiar with the concept of e-resources; to find out and analyses the e- resources for engineering college library; how it has evolved from library and user awareness regarding resources with academic and special libraries; and to review outstanding web based e- resources in engineering college.

REVIEWS OF RELATED STUDIES

There are several significant efforts as evidenced by many authors have detailed information which has been have studied the e-resources employed by the academic community of Sankalchand Patel College of Engineering College Library. Usage of e-resources by the undergraduate, postgraduate students and faculty members undertaking the S.K College of Engineering, Visnagar (Gujarat) [1]. Surendra Babu, Sarada and Ramaiah (2009) have found that internet has a great impact on academic community at Sri Venkateswara University (SVU), Tirupati [2]. Rogers (2001) has studied about electronic journal usage at Ohio State University and they found that the study different from other on e-journal usage in that document change in use pattern. [3]. Herring, S. D. (2002) has found that online resources are increasingly important to today's scholars and students [4]. Arun Kumar (2009) has studied that all member were aware of the e resources in Business Schools in India, FIIB [5]. Baljinder Kaur and Rama Verma (2009) has found that that a large number of users have started using electronic journals at Thapar University [6]. Bulu Maharana, Bipin Bihari Sethi and Subedita Behera(2010) has initiated the use of internet and e-resources by the students of business management, sambalpur university and found that E-resources and services in varied forms are rarely used by majority of management students as well as they are also of the opinion that these resources are highly important for self learning [7]. Khaiser Nikam and Pramodini B (2007) found that the librarian have important role to play in assisting the library users to make the best use of the electronics journals to maximum extent [8]. C.N. Okorie and I.O. Agboola (2012) have mentioned availability and use of electronic resources in agricultural university libraries [9]. Bipin Bihari Sethi and Prof. K. C. Panda (2011) have studied on use of E-Resources by life scientists: a case

study of Sambalpur University and they found that the unearthed the fact that 92.18 % of the respondents preferred to use e resources compared to print documents. The users to access e-resources are considered as one of the major constraints in effective use of e-resources [10]. Praveen shukla and Dr.Rajni Mishra(2011) has found that the all use of e – resources .76% daily use of e- resources .88% use e- resources for their research work by research scholars at Institute of Technology, Banaras Hindu University[10]. Suseela has mentioned the usage reports and the significance of usage and usefulness of the e-journals [12].

METHODS

The survey used the questionnaire tool to know the access and awareness of electronic resources among the students & faculties of S.K.College of Engineering Library. At present there are 70 undergraduate, 20 postgraduate students and 10 faculty members in this college. Nearly 100 questionnaires were distributed among the faculty and students of S.K.College of Engineering Visnagar. But out of 100 Users, 82 (82%) were responded.

USE OF E-RESOURCES BY S. K. PATEL COLLEGE OF ENGINEERING, VISNAGAR

Analysis of Data:

The analysis of Table 1 the respondent's personal details were according to the gender, age group, department, accommodation and frequency of library visit awareness of e- resources. The total Males are 56(68.30%) and females are 26(31.70%). The analysis of Table 1 the majority of the respondents (75.61%) belonged to the age group of 26 to 35, (13.42%), 36 to 45 (8.53%) and 46 to 56(2.44%) years and 62 users are students. The analysis of Table 1 the highest users belongs to Mechanical engineering departments (29.26%). Electrical Engineering 20(24.40%), Computer engineering 15(18.30%), Electronics & Communication Engineering 12(14.63%) and Information Technology 11(13.41%). The analysis of Table1 accommodation respondents 61 (74.39%) hostel and 21(25.81%) Outside.

TABLE I
USER GENDER, AGE, DEPARTMENT, ACCOMMODATION & LIBRARY VISIT

Sr. No	Particular	Category	Student	Faculty	Total
1	Gender	Male	42(51.22%)	14(17.07%)	56 (68.30%)
		Female	20(24.39%)	6(7.32%)	26 (31.70%)
2	Your age group	16 to25	62(75.61%)	*	62(75.61%)
		26 to 35	*	11(13.42%)	11(13.42%)
		36 to 45	*	7(8.53%)	7(8.53%)
		45 to 56	*	2(2.44%)	2(2.44%)
		56 to 65	*	*	*
3	Department	Computer Engineering	12(14.63%)	3(3.65%)	15(18.30%)
		Electronics& Communication Engineering	8(9.75%)	4(4.90%)	12(14.63%)
		Electrical	15(18.30%)	5(6.09%)	20(24.40%)

		Engineering			
		Information Technology	9(10.97%)	2(2.45%)	11(13.41%)
		Mechanical Engineering	18(21.95%)	6(7.31%)	24(29.26%)
4	Mode of Accommodation	Hostel	45(54.88%)	16(19.51%)	61(74.39%)
		Outside	17(20.74%)	4(4.87%)	21 (25.81%)
5	Frequency of Library Visit	Daily	26 (31.70%)	12(14.64%)	38(46.34%)
		Weekly	21 (25.60%)	4(4.88%)	25(30.48%)
		Monthly	10(12.19%)	1(1.23%)	11(13.42%)
		As When Require	5(6.09%)	3(3.67%)	8(9.76%)

The analysis of Table1 the majority of respondents 38(46.34%) visit at library daily and 25(30.48%) weekly, 11(13.42%) Monthly, 8(9.76%) as when require at visit the Library.

Level of Awareness and Use of E-Resources:

The analysis of Table 2 shows 4 (6.45%) of users are not familiar with the e- resources available in the library. Highest percentage 45(72.59%) felt that they consideration themselves as fully aware and another 20.96% somewhat aware of e- resources in the library.

TABLE II
E-RESOURCES USED

Sl. No.	e-resources	Student	Faculty
1	CD/DVD	14(22.58%)	4(20.00%)
2	Online Database	11(17.74%)	2((10.00%)
3	E Books/E Journal	31(50.00)	12(60.00%)
4	Other Resources	6(9.68%)	2(10.00%)

Frequency of Use:

Table 3 clearly reveals that most of the student 31.70% using e- resources at daily basis. Further, 25.60% respondents were using it on weekly basis, 12.19%t was using it on monthly basis, and 6.09% cent uses it when they require it.

TABLE III

LEVEL OF AWARENESS AND USE OF E-RESOURCES

Sl. No.	Awareness Level	Student	Faculty
1	Aware	45 (72.59%)	14 (70.00%)
2	Somewhat aware	13 (20.96%)	6 (30.00%)
3	Unaware	4 (6.45%)	*

Purpose of Using E-Resources

Table 4 show that the Purpose of using e-resources for study followed by 34(54.85%), for research work 12(19.35%), for presentation in to update knowledge 16(25.80%).

TABLE IV

FREQUENCY OF USE

Sl. No.	Frequency	Student	Faculty
1	Daily	26 (31.70%)	12(14.64%)
2	Weekly	21 (25.60%)	4(4.88%)
3	Monthly	10(12.19%)	1(1.23%)

Different E-Resources Used:

The analysis of data in Table 5 shows that CD /DVD and E Books / e-journals were the most used e resources by the respondents as seen from their responses which are 14(22.58%) and 31 (50.00%)respectively. And online database / Other Resources 11(17.74%) and 6(9.68%) responses indicate the use of all mentioned e-resources by the respondents.

TABLE V

PURPOSE OF USING E-RESOURCES

Sl. No.	Purpose	Student	Faculty
1	Study	34(54.85%)	7(35.00%)
2	Research work	12(19.35%)	5(25.00%)
3	update Knowledge	16(25.80%)	3(15.00%)
4	Teaching	*	5(25.00%)

Users' Opinion about the E-Resources:

The analysis of data in Table 6 shows that 47.46% of respondent are rating e- resources in digital library excellent, and 31.70% of respondent s are rating available e- resources is very good. Only 7.31% of respondents that e- resources by the library is poor.

TABLE VI
USERS' OPINION ABOUT THE E-RESOURCES

Sl. No.	Opinion	Excellent	Very Good	Average	Poor	Total
1	IEEE	7(8.53%)	5(6.09%)	2(2.43%)	0(0%)	14(17.07%)
2	ELSVIER	5(6.09%)	4(4.87%)	2(2.43%)	1(1.21%)	12(14.63%)
3	ASTM Digital Library	6(7.31%)	3(3.65%)	2(2.43%)	1(1.21%)	12(14.63%)
4	J Gate	5(6.09%)	4(4.87%)	2(2.43%)	1(1.21%)	12(14.63%)
5	ASCE	4(4.87%)	3(3.65%)	2(2.43%)	1(1.21%)	12(14.63%)
6	Springer	5(6.09%)	4(4.87%)	2(2.43%)	1(1.21%)	12(14.63%)
7	ASME	2(2.43%)	2(2.43%)	2(2.43%)	1(1.21%)	7(8.53%)
8	Other	0(0%)	1(1.21%)	2(2.43%)	0(0%)	3(3.65%)
Total		34(41.46%)	26(31.70%)	16(19.51%)	6(7.31%)	82

Problems Encountered by the Respondents:

Other.29.26% respondent face It takes too long to view/download web pages, 25.61%Overload of information on the Internet and 19.52%Lack of knowledge / training.

TABLE VII
PROBLEMS ENCOUNTERED BY THE RESPONDENTS

Sl. No	Problem encountered	Student	Faculty	Total
1	Show speed/connectivity/PCs & others	17 (27.41%)	4 (20.00%)	21 (25.61%)
2	It takes too long to view/download web pages	18 (29.03%)	6 (30.00%)	24 (29.26%)
3	Overload of information on the Internet	13 (20.98%)	8 (40.00%)	21 (25.61%)
4	Lack of knowledge / training	14 (22.58%)	2 (10.00%)	16 (19.52%)

Satisfaction Level of E-Resources Usage:

The analysis of data in Table 8 shows 28.05% users expressed that there were not satisfied with e- recourse the were accessing in term of meeting the needs.

TABLE VIII
SATISFACTION OF LEVEL

Level	Student	Faculty	Total
Satisfied	42 (51.22)	17 (20.73)	59 (71.95)
Not Satisfied	20 (24.39)	3 (3.66)	23 (28.05)
Total	62 (71.95)	23 (28.05)	82 (100)

CONCLUSION AND SUGGESTIONS

The above table gives the conclusion that students are leading users in compare to Faculty. Most users (42%) like to read print version of resources because it is convenient to them. The number of Users in Mechanical Engineering (29.26%) is higher than other users. From frequency visit point of view, 46.34 % of users are daily users of the library and 9.76 % of users like to visit according to their requirements. In total 82% of users are familiar with the facilities and services of digital library and make use of it. 46.34% of users utilize digital library regularly. Most of the students (54.85%) make use of the e-resources for their study and 25.8 % of users for updating the knowledge. 22.58 % of users like to use CDs/DVDs. The highest percentage (17.07%) of the users are access the IEEE. Only 6% of the users are not satisfied with the available resources. The users generally faces problems are measured, for 29.26% of the users downloading is a major problem. Also 19.52% of the users said that lack of awareness is another key problem. Bulk (71.95%) of the users satisfied with the e-resources accessible in the library. They are giving more importance to electronic version of documents. With the accessibility of more resources through the Internet with high-speed connectivity the demand for e-resources in their definite subject is growing. Accordingly, the libraries have to develop more scientific methods for the compilation of e-resources along with print documents by continuously reviewing the requirements of the user community.

REFERENCES

1. Sankalchand Patel College of Engineering College Library. (2012). Retrieved 08/07/2012 from <http://www.spcevng.ac.in/spce-library.htm>
2. Surendra Babu, K., Sarada. B. & Ramaiah, C. K. (2010). Use of Internet Resources in the S.V. University Digital Library. *DESIDOC Journal of Library & Information Technology*, 30 (1), 26-31. <http://publications.drdo.gov.in/gsd/collect/dbit/index/assoc/HASH420c.dir/dbit3001026.pdf>
3. Rogers, S. A. (2001). Electronic journal usage at Ohio State University. *College Research Libraries (C&RL)*, 62(1), 25-34. Association of College & Research Libraries. Retrieved 08/07/2012 from <http://crl.acrl.org/content/62/1/25.full.pdf+html>
4. Herring, S. D. (2002). Use of electronic resources in scholarly electronic journals: A citation analysis. *College & Research Libraries (C&RL)*. 63 (4), 333-340. Retrieved 13/04/2012 from <http://crl.acrl.org/content/63/4/334.full.pdf>
5. Arunkumar. (2009). Use and Usage of Electronic Resources in Business Schools in India: FIIB. In *Proceeding of International Conference on Academic Library (ICAL)*, 573-578. http://crl.du.ac.in/ical09/papers/index_files/ical-96_173_706_1_PB.pdf
6. Kaur, B and Verma, R. (2009) Use of Electronic Information Resources: A Case Study of Thapar University *DESIDOC Journal of Library & Information Technology*, 29 (2), 67-73. Retrieved 10/07/2012 from <http://publications.drdo.gov.in/gsd/collect/dbit/index/assoc/HASH0174.dir/dbit2902067.pdf>
7. Maharana, B., Sethi, B. B. & Behera, S. (2010). Use of internet and e-resources by the students of business anagement: A survey of P. G. students of business administration, Sambalpur University, India *International Journal of Library and Information Science*, 2(3), 45-53. Retrieved 10/07/2012 from

- <http://www.academicjournals.org/ijlis/PDF/pdf2010/Apr/Maharana%20et%20al.pdf>
8. Nikam, K. and Pramodini B (2007) Use of e- journals and database by the academic community of university of Mysore: A survey, *Annals of Library Information Studies*, 54,19-22.
[http://nopr.niscair.res.in/bitstream/123456789/3206/1/ALIS%2054\(1\)%2019-22.pdf](http://nopr.niscair.res.in/bitstream/123456789/3206/1/ALIS%2054(1)%2019-22.pdf)
 9. C.N. Okorie and I.O. Agboola (2012) Availability and Use of Electronic Resources in Agricultural University Libraries , Abeokuta, Nigeria *PNLA Quarterly*, the official publication of the Pacific Northwest Library Association Abeokuta, Nigeria Volume 76, no. 3 Retrieved 12/07/2012 from
<http://unllib.unl.edu/LPP/PNLA%20Quarterly/okorie-agboola76-3.pdf>
 10. Sethi, B. B. and K. C. Panda (2012) Use of E- resources by Life Scientists: A Case Study of Sambalpur University, *Library Philosophy and Practice* (e-journal). Paper 681
<http://www.webpages.uidaho.edu/~mbolin/sethi-panda.htm>
 11. Shukla, P. and Mishra, R. (2011) Use of resources by research scholars of Institute of Technology .Banaras Hindu University ,*International Refereed Research Journal* Vol II, Issue (2) pp 184-194. http://www.researchersworld.com/vol2/issue2/Paper_17.pdf
 12. Suseela, V. J. (2011). Application of usage statistics for assessing the use of e-journals in University of Hyderabad: A case study. *The Electronic Library*, 29 (6), 751-761. Retrieved from <http://www.emeraldinsight.com/10.1108/02640471111187980>

---@ @ @---