Impact of Information Technology on Library Usage : A Study in Government Engineering College, Salem

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Abstract

The developments of information technology have made drastic changes the way information is collected, stored, retrieved and distributed. The present study is focused on the attitude towards information technology on library usage of Government College of engineering Salem. A questionnaire was distributed among the male and female students to collect desired data. A total of 129 questionnaires were distributed to collect the primary data out of which 129 engineering students. 70(54.26%) users are using internet to keeping of current developments in their own field.

Keywords

Information Technology, OPAC Services, Internet, E-mail.

Electronic access

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Introduction

Information technology has emergence as a new technology for library and other fields. Due to the starting period of Information technology and even now days it plays a sound role in the library field. In present day libraries adopting Information technology for effective service to the users. Library is the heart of any Educational Institutions. It plays a vital role in modern society and it is the centre of learning in higher education. Libraries of today are equipped well and these constantly change in tune with the times and technology. Most important institutional libraries received the grants from UGC for computerization of the libraries. Technology (IT) involves acquiring, storing, processing, and distributing information by electronic means including radio, television, telephone, and computers. Information is available in a range of formats including texts, images, and sounds. Libraries are looking towards information technology as a tool to solve a number of problems encountered in providing library services to users.

Need of the study

Information technology emergence as new techniques to the library. Now a day all works are depending information technology. Because the service of the information technology is easy, fast and convenient to the users of information technology. Present days all type of library adopting information technology for functioning libraries for better services to the users. Hence, the need for the determination of its user's requirements and satisfaction prompted by information technology of this library users.

Review of literature

Kavitha, T (2011)[1] evaluated and analyzing of use of ICT among the faculty members of health care Institution of Puducherry. The relevant data were analyzed and assessed by employing interview schedule method from total number of 735 respondents; this study analyzed the use of ICT tools, and electronic health service by the respondents. It is also analyzed in this study that the performance of the various services offered by the Institution library. This study is useful for the development of health care Institution of puducherry. Viji nair (2012)[2] studied the Application of Information Communication Technology (ICT) in Research and Development Organizations Libraries. He pointed out that Information communication technology (ICT)

plays a vital role in enhancing efficiency in development of library service. This study provides the application and designing of information communication technology in selected research and development organizations of M.P. Today library are equipped to accomplish the newly information communication technology based services. Finally, in this study we know that, ICT based services fulfil the information needs of the users at the right time in the right place to the right person. Dhanavandan, (2012)[3] founded that majority of the faculty members of all four colleges visited the library daily and maximum number of reveals spent half an hour to one hour. The respondents visited up to two libraries for their information needs and also they wants use internet almost every day. A maximum number of faculty members use Internet. The respondents using electronic resources for their research/ study and communication purpose respectively. A maximum number of respondents are learned use electronic resources through external course and Guidance from others. The respondents are using Google to access the information in the Internet and stated that access to current up to date information as a benefit of using electronic resources. The respondents stated that too much information retrieved is the main barrier to access electronic resources and they preferred text books.. The respondents are visited to the library for the purpose of collecting material for their subject. The respondents stated that the arrangement of reading material in the library is easy to access and satisfied. Sonia Maan (2013)[4] conducted the study Role of Information technology and library's in today's globlized era. Information technology is currently taking centre stage and transformed the whole world into a global community, which is increasingly dependent on the creative management and distribution of information. The enormous advantages it has in easing the delivery of information around the world. This study discusses the role of information technology and libraries in today's global era. It also discusses the problems faced by the Library & Information Service sector in India and achievements over the years using modern information technologies.

Objective of the study

The following major objectives are framed to examine the Impact of Information Technology on library usage of Government College of Engineering Salem.

1. To examine the performance of Information Technology to the library usage.
2. To identify the searching the library collection
3. To identify the keeping abreast of current development while using information technology.
4. To find out usage of Information Technology to the library users.
5. To find out frequency of computer usage and internet usage of the respondents.
6. To find out the problem faced by the users while using the internet.
7. To know the satisfaction of the users about information technology.

Methodology

This study is mainly based on the primary data collected from UG students in Government College of Engineering, Salem, through a well designed questionnaire. Salem has one government Engineering college is selected for the purpose of present study. The researcher proposed to select 129 respondents by questionnaire survey. However, actual reply was received from 129 respondents. The sampling of the study is based on purposive random sampling.

Data Analysis

The collected data are classified and tabulated according to the objectives stated. First, the data were recorded on data sheets and then fed in to the computer personally. In order to test the hypotheses, ANOVA two way model have been applied. They are worked out with the help of Excel Package. The general data interpretation is made with the help of percentages and averages.

Table-1Gender wise distribution of respondents

Sl. No	Gender	No. of respondents	%
1	Male	102	79.07
2	Female	27	20.93
3	Total	129	100

Table-1 indicates the gender wise distribution of respondents. Out of 129 respondents, 102(79.07%) are male and 27(20.93%) female. Majority of the respondents are males.

Table 2: Department wise Distribution of Respondents

Sl. No	Departments	No. of Respondents	%
1	Mechanical Engineering	59	45.73
2	Electronic Communication Engineering	14	10.85
3	Metallurgical Engineering	14	10.85
4	Civil Engineering	18	13.97
5	Electrical &Electronics Engineering	12	9.30
6	Computer Science Engineering	12	9.30
7	Total	129	100

Table-2 Represent the department wise distribution. Including 129 respondents, various disciplines students are responding there are Mechanical 59(45.73%), Electronic Communication Engineering 14(10.85%), Metallurgical 14(10.85%), Civil 18(13.97%), Electrical &Electronics Engineering 12(9.30%), and Computer science Engineering 12 (9.30%) respondents were responding. Among the department wise distribution mechanical department was the highest amounts of respondents were responding.

Table -3 shows that searching library collections. It could be noted that majority of the respondents searching library collection manually 66.66%, using OPAC 31% and manually & using OPAC 2.34%. It could be seen clearly from above discussion the majority of the respondents searching library collection manually.

Table 3: Searching library collections

SL. No	Searching library collections	No. of Respondent	%
1	Manually	86	66.66
2	Using OPAC	40	31
3	Manually& using OPAC	3	2.34
4	Total	129	100

ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Rows	1647	2	823.5	0.908439	0.523988	19
Columns	2521.5	1	2521.5	2.781577	0.237289	18.51282
Error	1813	2	906.5			
Total	5981.5	5				

ANOVA two ways model is applied for searching library collection. At one point the computed ANOVA value is 0.90 which is greater than its tabulated value at 5 percent level of significance.

Hence variation with respect to possession of searching library collection respondents is statically identified as significant. There fore the framed hypothesis is accepted

Table 4: keeping of current development

Sl. No	Keep abreast of current development	No. of Respondents	%
1	Scanning of current issues or print online journals	14	10.85
2	Scanning recent issues of abstracting tools	10	7.75
3	Internet /E-Mail	70	54.26
4	Personal communication	10	7.75
5	Scanning of current issues or print online journals and Internet /E-Mail	4	3.12
6	Internet /E-Mail and Personal communication	16	12.4
7	Scanning recent issues of abstracting tools and Internet /E-Mail and Personal communication	3	2.32
8	Scanning of current issues or print online journals and Scanning recent issues of abstracting tools and Internet /E-Mail and Personal communication	2	1.55
9	Total	129	100

Table-4 shows that keeping of current development of the users. It could be noted that majority of respondents using Internet/ E-mail 54.26%, Internet/E-mail and personal communication 12.4% and scanning of current issues or printed online journals are using 10.85%.

ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Rows	1627.938	7	232.5625	0.850126	0.582064	3.787044
Columns	540.5625	1	540.5625	1.976011	0.20261	5.591448
Error	1914.938	7	273.5625			
Total	4083.438	15				

ANOVA two ways model is applied for keeping abreast of current development. At one point the computed ANOVA value is 0.85 which is greater than its tabulated value at 5 percent level of significance. Hence variation with respect to possession of keeping abreast of current development respondents is statically identified as significant. There fore the framed hypothesis is accepted

Table-5 shows that respondents about electronic resources. Out of 129 respondents, 53(41.08%) respondents are saying accessing electronic sources are more easier. 67(51.93%) respondents are agree that the electronic sources are easy to convenient accessing . out 129 respondents only one respondents saying that the electronic sources are more difficult to using.

Table 5: Nature of Electronic Sources

Sl.no	Nature of electronic sources	No. of respondents	%
1	More easier	53	41.08
2	Easier	67	51.93
3	Difficult	8	6.22
4	More difficult	1	0.77
5	Total	129	100

ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Rows	1496.375	3	498.7917	0.87437	0.542638	9.276628
Columns	1770.125	1	1770.125	3.102987	0.176364	10.12796
Error	1711.375	3	570.4583			
Total	4977.875	7				

ANOVA two ways model is applied for nature of electronic sources. At one point the computed ANOVA value is 0.87 which is greater than its tabulated value at 5 percent level of significance. Hence variation with respect to possession of nature of electronic sources respondents is statically

identified as significant. There fore the framed Table-6 shows that frequency of using internet. Out of 129 respondents, 49(37.98%) respondents are using internet five to six hours per week and 45(34.88%) respondents are using tow to four hours

hypothesis is accepted.

per week,27(20.93%) respondents are using ten to twenty hours a week and 8(6.21%) respondents are using over twenty hours a week. Totally all are using internet simultaneously.

Table 6: Frequency of Using Internet

Sl.No	Amount of time spend on internet per week	No. of respondents	%
1	2-4hours	45	34.88
2	5-6hours	49	37.98
3	10-20hours	27	20.93
4	over 20 hours	8	6.21
5	Total	129	100

Table 7: Satisfaction of Information Technology Services

Sl.No	Satisfaction with IT services	No. of respondents	%
1	Good	56	43.41
2	Satisfied	54	41.86
3	No commands	17	13.17
4	Not Satisfied	2	1.56
5	Total	129	100

Table-7 shows that satisfaction of Information Technology services. The question was asked, are you satisfied with the present information technology? The answer was very positive, because 56(43.86%) respondents are answering it is good,

54(41.86%) respondents are satisfied with the present information technology. Only tow respondents are not satisfied with present information technology and 17(13.17%) respondents

Table 8: Problems of Using Internet

Sl.No	Problem encountered while using internet	No. of Respondents	%
1	Slow access speed	63	48.83
2	Difficulty in finding relevant information	14	10.90
3	Over load of information on the internet	16	12.40
4	It takes to long to view/download	5	3.87
5	Difficulty in finding relevant information and Over load of information on the internet	2	1.55
6	Difficulty in finding relevant information and It takes to long to view/download	3	2.32
7	Slow access speed and Over load of information on the internet	1	0.77
8	Slow access speed and Difficulty in finding relevant information	5	3.87
9	Slow access speed and It takes to long to view/download	15	11.62
10	Slow access speed, Over load of information on the internet and It takes to long to view/download	3	2.32
11	Slow access speed, Difficulty in finding relevant information and It takes to long to view/download	2	1.55
12	Total	129	100

Table-8 describes problem encountered while using internet. Out of 129 respondents 63(48.83) respondents answering slow access speed , 14(10.90%) respondents are saying difficulty in

finding relevant information, 16(12.40%) respondents are answering over load of information

on the internet and 5(3.87%) respondents answering It takes to long to view/download.
Findings

1. Males are majority of the user community.
2. Mechanical Engineering students are majority of the respondents.
3. Maximum numbers of users are manually searching the library collection and minimum numbers of users are using OPAC while searching the library collections.
4. Internet and E-email is mostly used for knowing current developments of their own field and others.
5. From this study satisfaction of information technology is good and well.
6. Majority of the users using Internet 5-6 hours a week. And all are using internet minimum 2 hours in a week.
7. Majority of users are frequently using internet.
8. Slow access speed is the major problem while using Internet.

Conclusion

The major findings are many students are using computer daily. It indicates it is very useful to their studies and other works. Telephone, fax, mobile, E-mail is the information communication devices. Among 129 respondents all are having one are more than one communication devices. It indicates that is all are helping to their communication from one to another.40 (31%) Students are using OPAC while searching the library collections out of 129 respondents and 86(66.66%) respondents are searching manually. somebody's searching both manually and using OPAC. This is indicates most of the users are can not aware of OPAC. 70(54.26%) users are using internet to keeping of current developments in their own field.

In this study the result was find out, which was slow access speed, is one of the most problems to using internet. Other problems are over load of information,

difficulty in finding relevant information and to long to view / download. Some times more than one are two problems are facing the users like both slow access speed and over load of information difficulty in finding relevant information and to long to view / download . From this study, large number of people says internet is very important to life and limited respondents are says important and few are saying not important and undecided. This study was very clearly shows that the information technology is very useful. And in the government college of engineering the impact of information technology is good.

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