
**Assessment on Availability of ICT Infrastructure
Facilities to Access E-resources Among the
Engineering College Libraries of North
Maharashtra University**

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Abstract

This study attempt to examine the ICT infrastructure facilities available in engineering college libraries affiliated to North Maharashtra University, Jalgaon. For the present study there were six colleges selected out of 18 engineering colleges affiliated to North Maharashtra University. From this study it was found that majority of the libraries having necessary infrastructure facilities to access the e-resources for their users.

Keywords

ICT Infrastructure, Network facilities, e-resources.

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Introduction

The rapid growth of information and communication technologies have gave rise to the evolution of several new jargons like paperless society, electronic resources, portal gateway and global digital library. In the day context, all types of libraries viz: academic, public and special are not only providing printed resources to their library users rather they provide printed, electronic as well as other Internet resources like e-books and databases for fulfilling the day to day academic and research requirements of the library users. The traditional functions of libraries and librarians have undergone radical changes in the present day context of ICT. Now libraries and information centers have incorporated adopted various electronics resources for its collection developments to fulfill the requirements of different category of library users in a better way. Information communication technology is not only highly important for profit, but for individual academic institution to develop and promote technological improvement. Hence the call of the day is to care and share not only information sources, but also the infrastructure facilities and skilled manpower resources among the libraries.

Review of Literature

Varadharajan (2007)¹ stated in his study “Digital Libraries and Library Professional in the Changing Scanario” that a series of training courses on digital libraries could provide a good balance of topics covering the technological, technical, management and social issues. Haneefa K (2007)² presented the results of an investigation in the study “Use of ICT Based Resources and Services in Special Libraries in Kerala, India. The email service was used by the largest percentage of the users. WWW was being used by 60 per cent of the library users. A good no. of users were not satisfied with the application of ICT in the libraries and indicated ‘inadequate ICT infrastructure’ as their reason for dissatisfaction. Users proposed a variety of measures of formal orientation and training in ICT based resources and services. Rajput et al (2007)³ surveyed the internet resources and services of the Institute of Engineering & Science, Indore (India) and the findings in the paper “Internet Resources and Services in Institute of Engineering & Science, IPS Academy Indore: An Exploratory Study”. A large number of users were dissatisfied with the infrastructure facilities available in IES, specifically in terms of hardware facilities. Dhanavandan (2012%) describes the Use of Digital

Library Resources by the engineering professionals in the engineering colleges at Cuddalore District, and investigates the current state-of-the art information through the digital library resources. The 33.7% of users feel that lack of information is the problems with access of digital library resources. The findings of this study would assist the internet browsers to improve their level.

Objectives of the Study

The following are the objectives of the study.

- To findout hardware facilities available in engineering college libraries of North Maharashtra University
- To know software facilities available in engineering college libraries
- To identify network connection facilities available in engineering college libraries
- To findout Network services subscribed by the engineering college libraries
- To know bibliographic database e-resources subscribed by the engineering college libraries

Analysis and Interpretation

Table 1 Hardware facilities available in engineering college libraries

S. No	Items	Jalgaon District Engg. College libraries	Dhule District Engg. College libraries	Nandurbar District Engg. College libraries	Total
1	No. of computer systems	19(44.19)	10(23.26)	14(32.56)	43
2	No. of computer with DVD/CD ROM reader	19(44.19)	10(23.26)	14(32.56)	43
3	No. of computer with DVD/CD ROM Writer	19(44.19)	10(23.26)	14(32.56)	43
4	Servers	2(33.33)	2(33.33)	2(33.33)	6
5	Terminals / Workstations	2(33.33)	2(33.33)	2(33.33)	6
6	Printers – Dot matrix	3(42.86)	2(28.57)	2(28.57)	7
7	Printer – laser	2(33.33)	2(33.33)	2(33.33)	6
8	Modems/Data card / ifi	2(33.33)	2(33.33)	2(33.33)	6
9	CD-Towers	-	1(100)	-	1
10	Scanners	4(50.00)	2(25.00)	2(80.00)	8

The data presented in the table 1 shows that district wise hardware facilities available in engineering college libraries of north Maharashtra University. Among the three district college libraries the Jalgaon district engineering college libraries having more numbers of computers with DVD/CD ROM reader

Methodology

There are 18 colleges located in three districts of North Maharashtra University i.e., Jalgaon district, Dhule district and Nandurbar district. From the every district two colleges were selected as sample and totally six colleges have been taken by the researcher for the present study. The researcher has employed a well structured questionnaire for collecting data from the librarian of the engineering colleges located in three districts. The questionnaire was designed to elicit ICT infrastructure facilities available in the libraries to access e- resources for the benefit of their users.

Limitation of the study

- This study is limited to only 6 engineering colleges affiliated to North Maharashtra University.
- This study is not included any other colleges affiliated to North Maharashtra University

and writer facilities. Regarding to printer and scanners facilities jalgaon district libraries having more number compared to others. It is also could be noted from the table that no one library has Ink jet printer

Table 2 Software facilities available in engineering college libraries

S. No	Items	Jalgaon District Engg. College libraries	Dhule District Engg. College libraries	Nandurbar District Engg. College libraries	Total
1	No. of computes with windows / DOS / UNIX / LINUX	10(29.41)	10(29.41)	14(41.18)	34(43.59)
2	No. of computers with library software	10(52.63)	5(26.32)	4(21.05)	19(24.36)
3	No. of computers with networking software	10(40.00)	11(44.00)	4(16.00)	25(32.05)
	Total	30(38.46)	26(33.33)	22(28.21)	78(100)

Table 3 Network connection facilities available in engineering college libraries

S. No	Items	Jalgaon District Engg. College libraries	Dhule District Engg. College libraries	Nandurbar District Engg. College libraries	Total
1	Internet connection	13(30.23)	8(18.60)	12(27.91)	43(87.86)
2	Intranet connection	2(33.33)	2(33.33)	2(33.33)	6(12.24)
	Total	15(30.61)	10(20.41)	14(28.57)	49(100)

Table 4 Subscription to Network services available in engineering college libraries

S. No	Items	Jalgaon District Engg. College libraries	Dhule District Engg. College libraries	Nandurbar District Engg. College libraries
1	DELNET	Yes	Yes	Yes
2	ERNET	No	No	No
3	INFLIBNET	No	Yes	Yes
4	NICNET	No	No	No
5	INDONET	No	No	No

The data presented in the table 2 shows that district wise software facilities available in engineering college libraries of north Maharashtra University. Among the engineering college libraries Nandurbar district engineering college libraries having more number of computers with windows / DOS / UNIX / LINUX but at a same time Jalgaon district engineering collage libraries have more number of library software compared to other two district engineering college libraries. Regarding to network software facilities Dhule district engineering college libraries have more number of computers with network software.

The data presented in the table 3 shows that district wise type of network connection facilities available

in engineering college libraries of north Maharashtra University. Among the three district engineering college libraries, Jalgaon district engineering college libraries having more number of internet connection but regarding intranet connection all the district engineering college libraries having same number of intranet connection.

The data presented in the table 4 shows that district wise subscription to network services available in engineering college libraries of North Maharashtra University. It is evident from the above table that Dhule and Nandurbabar engineering college libraries having DELNET and INFLIBNET network services but in Jalgaon district libraries have only DELNET service.

Table 5 Subscription to bibliographic database e-resources available in engineering college libraries

S. No	Items	Jalgaon District Engg. College libraries	Dhule District Engg. College libraries	Nandurbar District Engg. College libraries
1	Meta dax	No	No	No
2	IEEE	Yes	Yes	Yes
3	IEE	No	No	No
4	INSPECT	No	No	No
5	COMPENDEX	No	No	No
6	CHEM. ENGG.	No	Yes	No
7	ASME	Yes	Yes	Yes
8	ASCE	Yes	Yes	Yes
9	ACM	Yes	Yes	No
10	ELSEVER	Yes	Yes	No
11	J-GATE ENGG.	Yes	No	Yes
12	J-GATE MANAGEMENT	Yes	No	No

The data presented in the table 5 shows that district wise subscription to bibliographic database e-resources available in engineering college libraries of North Maharashtra University. IEEE, ASME, ACM, ELSEVER, J-GATE ENGG., J-GATE MANAGEMENT are the popular bibliographic database e-resources and subscribed by the all the engineering college libraries of North Maharashtra University.

Conclusions

All libraries having computers with DVD/CD ROM with reader and writer facilities and it has computers with library software and network software facilities. The libraries are possessing internet connection facilities for accessing e-resources. Majority of the libraries having only two network services namely DELNET and INFLIBNET. Majority of the libraries subscribed IEEE, ASME, ACM, ELSEVER, J-GATE ENGG., J-GATE MANAGEMENT popular bibliographic database to access e-resources. From the study it is concluded that all the sample engineering libraries having necessary ICT infrastructure facilities to access the e-resources for the benefit of their users.

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