



USE OF E-RESOURCES IN THE GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA : A STUDY

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Abstract :

Library is a repository of resources. Adequate electronic resource facilities empower and enrich the higher education system in meeting the best academic needs. Users use e-resources in the library or anywhere. The silicon age that led the computer revolution has significantly changed the libraries. The electronic resources consist of on line journals, databases, CD-ROM material and audio/video course materials. The present paper examines the existence of various e-resource databases in the GNE college library and its uses by students.

Keyword : E-Resources, Academic library, GNE library.

Introduction :

Internet and its most used component www has an important role to play to access on line information and share information to others. Due to information technology and use of computer in the libraries, users have more opportunities to access on line database any time and anywhere without any wall. Internet is the gateway for libraries and information centers to access a wide variety of services such as electronic mail, file transfer, information resources, multimedia display and much more. The Internet consists of a variety of access protocols. Almost every protocol type available on the Internet is accessible on the web.¹ The electronic information era provides the information, generated by different organizations, institutes, research centers and individuals all over the world. Guru Nanak Dev Engineering College was established by the Nanakana Sahib Education Trust [NSET]. Guru Nanak Dev Engineering College was established in 1956. Nearly 10,000 graduates and 300 P.G. Engineers have passed out from this college during the last 50 years. The college is now ISO 9001-2000 certified, NBA accredited and has signed MoU with IOWA University [USA] for exchange of students and faculty. The college is affiliated with Punjab Technical University, Jalandhar to run B.Tech, M.Tech. (Regular & Part time) MBA and MCA.

E-Resources :

The Electronic resources such as E-Text, E-Journal, and E-Communication systems, E-mail, CD-ROMs and Internet are known as the Electronic Information. Resources on the Research Databases Web page are drawn from records in the Electronic Resources Module (ERM).³

Objective of the study :

- To study the use of different types of e-resources by the users.
- What level of ICT skill of Students.
- To study the type of users access e-resources.
- To study the purpose and frequency of using the electronic resources in the library.
- To study the awareness about e-resources among students.

Methodology :

The method adopted for the present study in the questionnaire method. The questionnaire was distributed among 300 users of the library, those are study in B.Tech. 3rd and final year, M.Tech., and MBA students. The analysis is based on the responses received by the users.

Limitations and Scope of Study :

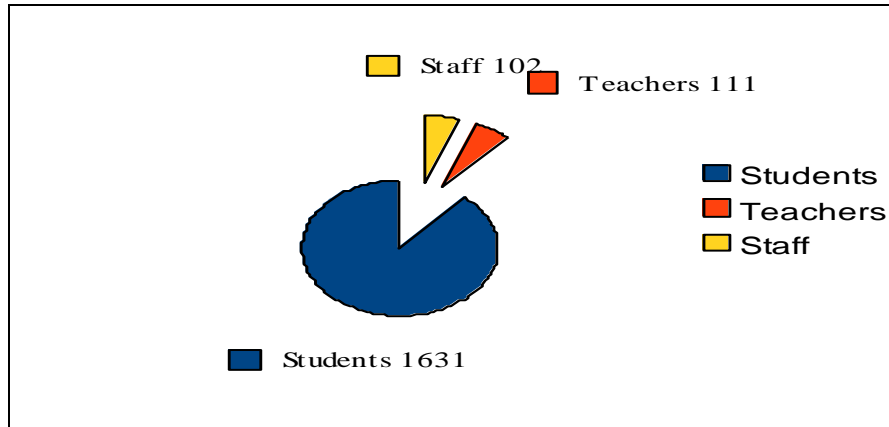
The present study is confined Guru Nanak Dev Engineering. College, Ludhiana concerning only the library electronic resources used by the students. The main purpose of study is to find out the user level of E-Resources. In this study, data received from the respondents and assumed to be factual. The study focuses on the use of e-resources by PG/UG students of this college.

Table. 1

Total number of library users :

S. no.	Category of users	No of Users	Percentage
1.	Students (B.T.ech, M.Tech, MBA, MCA)	1631	88.44%
2.	Teachers	111	06.01%
3.	College staff	102	5.53%
4.	Total no. of library users	1844	100%

The above table show the total numbers of library users are 1844. Out of 1844 1631 are students , 111 are teachers in different departments and 102 are staff members of the college.

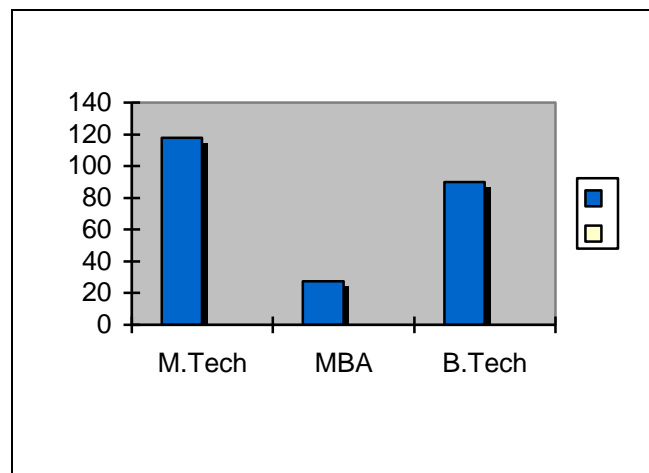


Population for the study :

The estimated population for this study is 280 respondents out of 300 questionnaires drawn from among PG and UG students of this college. The breakdown of the students population is a illustrate in below.

Table.2

Level of students	No. of respondents	%
M.Tech	118	42.14%
B.Tech (final)	159	1.07%
MBA	03	56.78%
Total	280	100%



The above graph shown that out of 280 respondents 118 of M.Tech students of different branches, 03 students of MBA and 159 students B.TECH of final year.

IT Based services in the GNE library :

The college library is now expected to use various information technologies to provide electronic information services to its users. Services are given below :

a. Online Public Access Catalogue (OPAC) :

Library provide to access on line public access catalogue to its users. Users can access various options to search their books in the library like : Author, Title, Keywords. The bibliographic records more than 42200 including books, thesis, reports, proceeding.

b. Web base E-resources available in the library :

The library has started subscribing the web based full text e-resources in the library through Internet. AICTE also providing free of cost full text e-resources to the library. The following some e-resources accessible in the library :

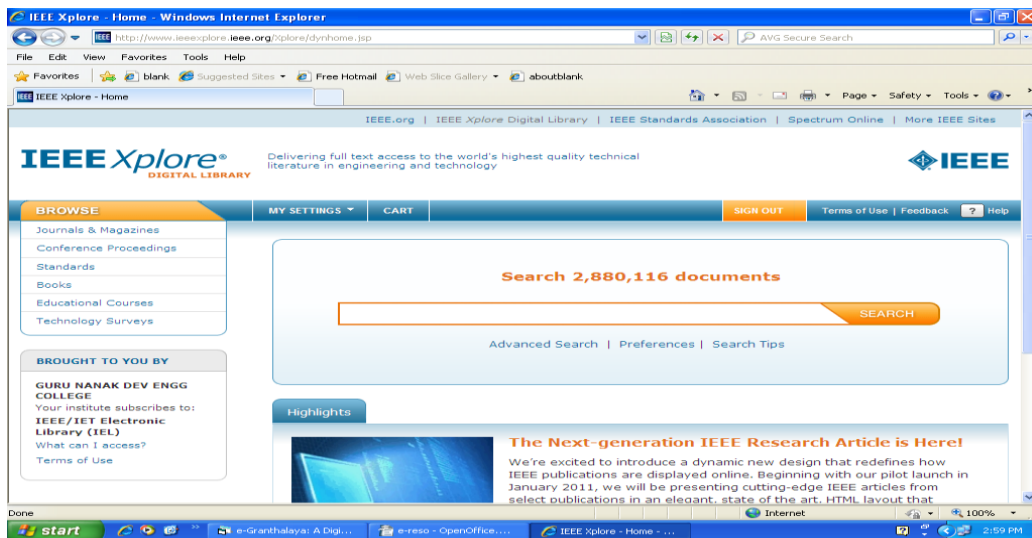
S.No.	Links	Subject Covered	No. of Jrnls
1.	http://www.ieeexplore.ieee.org	Electronics,Electrical,Comp.Sc	266
2.	http://www.sciencedirect.com	Engineering branches only	240
3.	http://scitation.aip.org	Mechanical and Civil	25 ME,14 CE
4.	http://www.openj-gate.com	All subjects	--
5.	http://paniit.iitd.ac.in	Engineering branches	--
6.	Http://www.delnet.nic.in	Catalogue of books and thesis	--

Features of using E-Resource :

- e-resources can be accessed from different location.
- e-resources are very easy to access.
- It can be accessed to full text in Pdf.
- e-resources are very much user friendly interface.
- Through the Internet library can able to sharing their resources.
- E-resources can be access on the desktop.
- e-resources more quickly available than print publication.
- Through e-mail facilities students can share e-resources with their friends.

E-resources portal integrated in the GNE library effective service provide to their users.

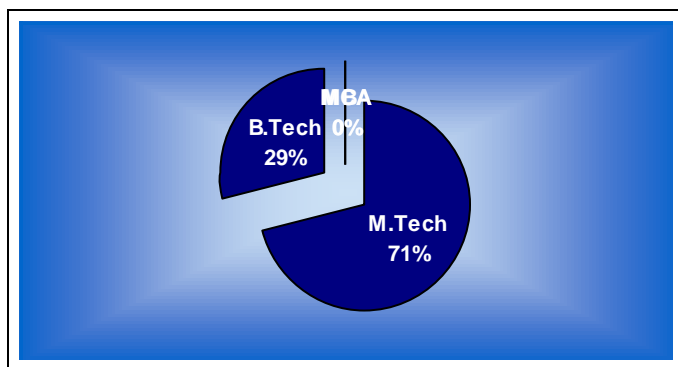
Link : [Http://www.ieeexplore.ieee.org](http://www.ieeexplore.ieee.org)



Following table shown that most students prefer to access IEEE :

Table.3

S.no.	Class	No. of Users	%
1.	M.Tech.	92	70.76
2.	B.Tech.	38	29.23
3.	MBA	Nil	--
4.	MCA	Nil	--
	Total	130	100%



The above graph show that the 92 out of 130 students of M.Tech use e-resources and 38 students of B.Tech use e-resources. The variation show that the majority of PG Level students to use e-resources.

IEEE is worldwide leader is providing information access to its users through print mode via subscription services. There are some features of IEEE are as :

IEEE database provide browsed title in alphabetical order.

It provide full details of research paper their author and editorial members.

Access full text in pdf form.

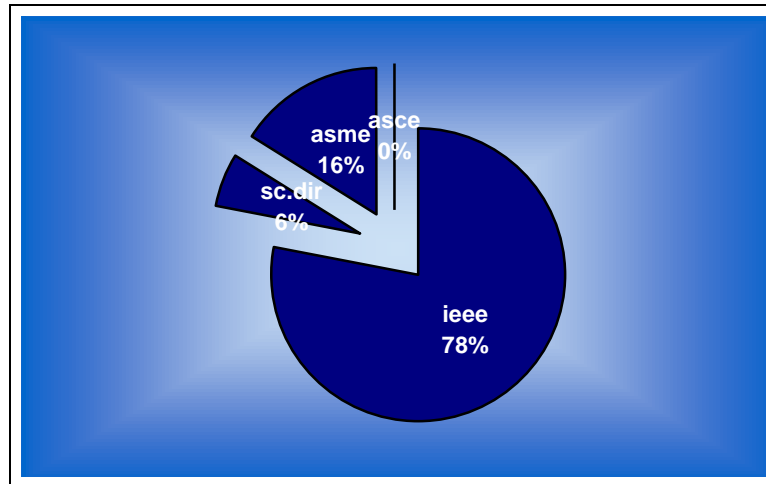
Contents can be browsed through keywords.

Password is required to access.

Access on line journals/ E-resources :

Table. 4

Degree level	IEEE	Science direct	ASME	ASCE
M. Tech	92	7	19	--
B. Tech	38	05	10	15

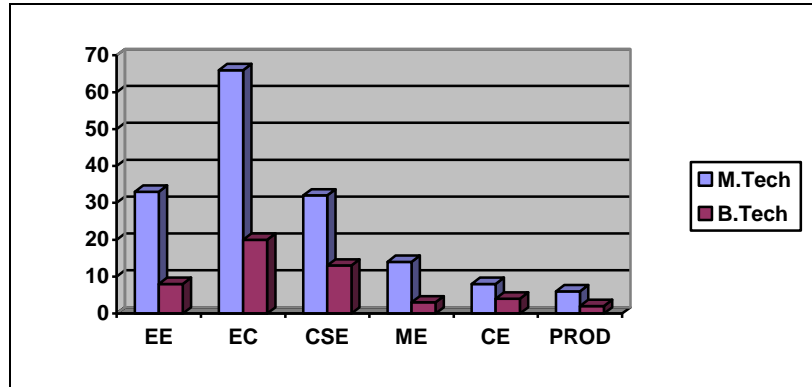


The graph shows that out of 118 students, 92 students of M.tech of different deptt. Access IEEE journals and 7 students access science direct ,19 students access ASME online journals. Out 159 students of B.Tech 38 students access IEEE, 5 students access science direct,10 students access ASME and 15 students access ASCE journals.

Branch wise variation of E-resources :

Table. 5

Branch	No. of respondents	M.Tech	B.Tech
Electrical	41	33	8
Electronic	86	66	20
Computer/IT	45	32	13
Mechanical	17	14	3
Civil	12	8	4
Production	08	6	2
Total	209	159	50



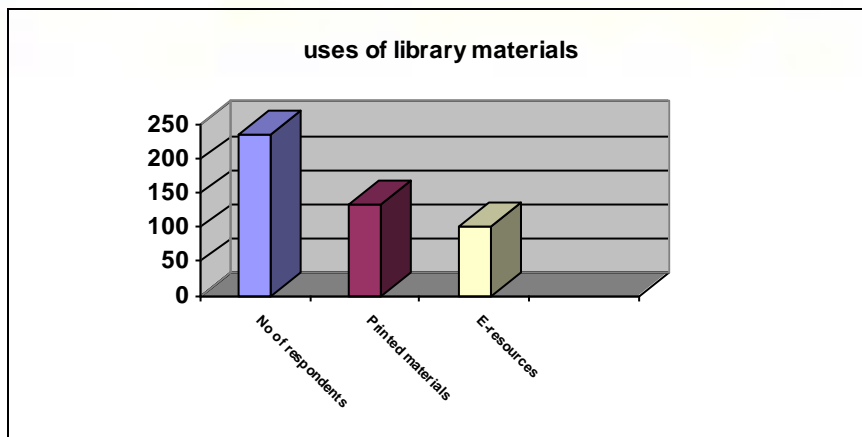
The above table show that the branch wise variation of access e-resources by PG and UG level students. The table show that the majority of M.Tech students access e-resources and electronics branch on peak level.

Use of library materials by students :

Table. 6

No. of respondents	Questionnaire Dist.	Use of printed materials	Use of e-resources
236	300	134	102

The above table show that the 134 users given preference to printed materials and 102 users preference given to e-resources. The most numbers of users are M.Tech students which are preference to e-resources materials.

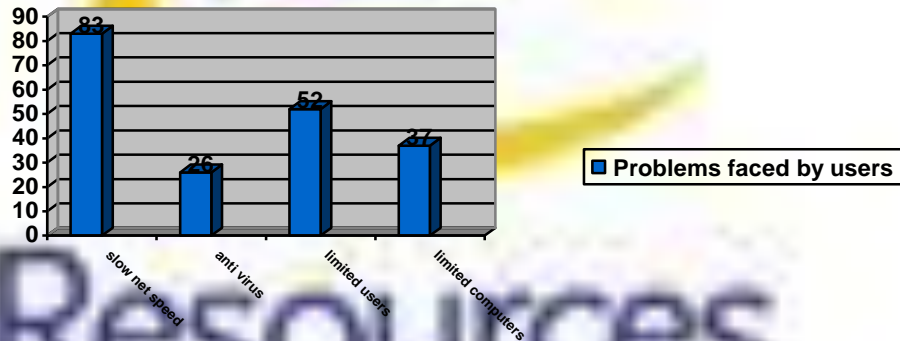


Problems Faced in Downloading Internet Resources :

Table. 7

Problem faced by users	Numbers	%
Slow network speed	83	41.91%
Anti virus	26	13.13%
Limited users account	52	26.26%
Limited computers	37	18.68%
Total	198	100%

The above table show that 83 (41.91%) students point of that the slow speed of internet, 26 (13.13%) anti virus, 52 (26.26%) limited users account for IEEE access and 37 (18.68%) limited no. of computer in the library.



Finding :

- It is observed that students demands to increase the IEEE users at a time.
- Through the study of questionnaire it was noticed that the Internet speed is low and it should be improved.
- Adequate staff should be appointed to provide better services to its users and the training should be must regarding IT based services.
- It is also observe that some students are not aware the e-resources services in the library at UG level. So the library may start orientation education before the beginning of the every academic session to introduce the library services.

- It is observed that the majority of users access IEEE journals for their course work.
- It is also observed that mostly students prefer printed materials from library.

Limitations of E-Resources :

- Unlike the e-resources need the availability of computer systems, internet connections and appropriate software's & hardware's.
- E-Resources are required passwords.
- Lack of proper infrastructures to handle e-resources.



Conclusion :

The above discussion it is very clear that the use of e-resources expected to increase in the number of users in IEEE database. Maximum number of students of M. Tech. branches used electronic resources for course work and to get latest information resources. The numbers of students are preferred printed material.



References :

1. Jain, M. K., Teaching Learning library and information services : A manual, New Delhi : Shipra Publications, 2006 P-201.
2. www.gndec.ac.in Accessed on 08/3/2011.
3. <http://library.osu.edu/staff/techservices/ERMpolicies.php> Accessed on 08/3/2011.
4. <http://www.ieeexplore.ieee.org> Accessed on 14/3/2011.
5. Kaul, H. K., Ed. NAACLIN, New Delhi : Delnet 2007. P.323.

The logo features a stylized, swirling shape composed of two curved lines, one yellow and one blue, set against a light background. Below this graphic, the word "eResources" is written in a bold, blue, sans-serif font.

eResources