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## Utilization of Electronic Resources and its Impact: A study of National College of Engineering Library Users

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### Abstract

*In the digital era electronic resources are revolutionizing libraries across the world, Electronic resources in one of the emerging environment in engineering college library. The present study focuses utilization of e-resources and its impact: a study of national college of engineering, Maruthakulam, Tirunelveli, Tamilnadu. This study main objective are to identify, the awareness of e-resources, satisfaction level of availability of e-resources, use of different e-resources, purpose of use, satisfactory level of using e-resources, impact of e-resources, problem faced in the access of e-resources, users suggestion to improve usages of e-resources. Survey method was used to carry out this research. A well structure questionnaire was distributed among the faculty members and students to collect desired data. A total of 200 questionnaires was distributed and collected with sample of NCE.*

### Keywords

*e-resources; e-journal; engineering college; library users*

### Electronic access

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## INTRODUCTION

No doubt, the electronic resources may be probably viewed as one of the most significant happenings of the modern information society and academic institution. The 21<sup>st</sup> century transition to electronic resources crucial role in academic libraries is gaining momentum in the opening years. Every academic institution is purchasing electronic resources in record number for their users. The primary goal of library is to provide an effective combination of print, non-print and electronic resources to the users to meet their information requirements systematically. It is a fact that, the electronic resources available in libraries be used systematically and thoroughly where in educate the users from time to time. Out of all, the electronic resources are playing a vital role in information dissemination in contemporary librarianship.

## ABOUT INSTITUTION

NCE College was established in the year 2000 under the Manarul Huda Trust, Thiruvananthapuram. The institute works with a mission to attain the goals enshrined in the vision of the college. "To create Technologically Superior and Morally Strong Universal Manpower". NCE aspires to be an ISO 9001-2015 certified premier institution offering high quality education. The aim of the NCE library is to support teaching, learning, and research in institute. The library has more than 20,000 volumes with 4850 titles, 690 Number of back volume, 1314 digital resources, 1114 past student's project report, 420 subject e-books, DELNET e-database, online journals and NPTEL. The NCE library regularly purchases good number of books, subscribes a number of printed and electronic online journals, other study materials to cater to the needs of the users.

## REVIEW OF LITERATURE

Biradar, Kavita and Naik, K. G. Jayarama (2017). The study focuses on the digital literacy skills and competencies among the research scholars and PG students of deemed university libraries in Bangalore. The study aims to identify the respondent's usage, awareness of e-resources, purpose of use, impact of e-resources, factors influenced and barriers faced in the access of e-resources. Questionnaire was used to collect the data from the respondents. The researcher took 130 questionnaires for analysis using simple percentage techniques. Mani, M. and Thirumagal, A. (2016). The present study examines the existence of types of e-resources, awareness on e-resources, Assess points of e-resources, problems faced while

accessing the e-resources, purpose and preference of e-resources usage by student at self financing engineering college libraries in Tirunelveli District, Tamil Nadu.

**OBJECTIVES**

The main objectives of the present study are as follows:-

1. To know the awareness of the available e-resources.
2. To know the purpose of using e-resources
3. To know the satisfaction level of availability of e-resources
4. To identify the impact of e-resources
5. To know the problems faced while accessing e-resources

**METHODOLOGY**

This study is an attempt to ascertain the usage and impact of e - resources by the users (faculty and students) of national college of engineering library. For this purpose a total 200 questionnaire have been distributed among 60 faculty and 140 students of NCE. All the valid questionnaires have been collected from user category and data has been analysed, tabulated, interpreted and presented in the form this paper.

**DATA ANALYSIS**

A simple percentage analysis was carried out in this study. All the findings were given in the form of tables and relevant interpretations.

**Table 1.** Distribution of User Category wise

Valid	User Category	Frequency	Percent
	Faculty	60	30
	Students	140	70
	<b>Total</b>	<b>200</b>	<b>100</b>

Source: primary data

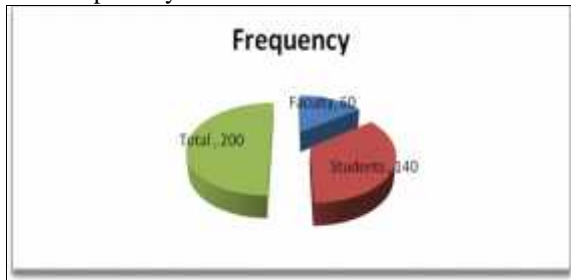


Figure -1 Category wise distribution of respondents

Table 1 and figure 1 shows that 70% of students respondents followed by 30% of faculty member respondents has participated this study.

**Table 2.** Awareness of NCE library e-resources

User Category		Variable (Binned)			P
		Less	Moderate	Well	
Faculty	Count	2	20	38	0.00001
	%	3.3	33.3	63.4	
Students	Count	39	59	42	
	%	27.9	42.1	30.0	

The table 2 shows that, 63.4 percentage of the faculty respondents are well aware, followed by 33.3 percentages are at moderate aware. 42.1 percentage of students respondents are moderate aware, followed by 30.0 percentage are at well aware and 27.9 percentage at less aware. The chi-square is test applied, the statistics is 24.8136. The p-value is 0.00001. The result is there is a significant difference between faculty and students respondents regarding level of awareness of e-resources.

**Table 3.** Availability of e-resources in the NCE library

E-resources	Agree	%	Disagree	%
e-journals	148	74.0	52	26.0
e-book	138	69.0	62	31.0
e-magazine	48	24.0	152	76.0
E-database	127	63.5	73	36.5
E-video lecture	167	83.5	33	16.5
CDs/ DVDs	115	57.5	85	42.5
Internet / WI-FI	179	89.5	21	10.5

Note :- Multiple answers are permitted, N=200

Respondents are asked to agree or disagree with availability of types of e-resources in the NCE library. Table 3 reveals that, 89.5 percentage respondents are agreed with availability of internet / Wi-Fi, followed by 83.5 percentage respondents are agreed with availability of e-video lectures, 74.0 percentage respondents are agreed with availability of e-journals, 24.0 percentage respondents are less acknowledged with availability of e-magazine in the NCE library.

**Table 4.** Purpose of using e-resources

Purpose of using e-resources	Respondents	Faculty	Students
Knowledge upgradation	173	52 (86.7)	121 (86.4)
For getting current information	176	48 (80.0)	128 (91.4)
For Project / thesis	98	33 (55.0)	65 (46.4)
For career development	136	48 (80.0)	88 (62.9)
Relevant information	125	51 (85.0)	74 (52.9)
Other activities	73	22 (36.7)	51 (36.4)

Note :- Multiple answers are permitted, N=200  
[The number with in parenthesis considered as percentage]

Table 4, it observes from the above table that, 86.7 percentage of most of the faculty respondents are using e-resources for knowledge upgradation, followed by 85.0 and 80.0 percentage faculty respondents are using e-resources for relevant information, current information and career development respectively. 91.4 percentage of most of the students respondents are using the e-resources for current information, followed by 86.4 and 62.9 percentage of students respondents are using the e-resources for knowledge up gradation and career development respectively.

**Table 5.** Opinion of using e –resources

User Category		Variable ( Binned)			P
		More Information	More Preferred	More Effective	
Faculty	Count	43	11	6	0.71969
	%	71.7	18.3	10.0	
Students	Count	93	28	19	
	%	66.4	20.0	13.6	

The table 5 shows that, 71.7 percentage of the faculty members respondents has chosen more information option, followed by 18.3 percentages of the faculty respondents has chosen more preferred option and 10 percentage faculty has chosen more effective option.

66.4 percentage of students respondents has chosen more information option, followed by 20.0 percentage of students respondents has chosen more preferred option and 13.6 percentage of students respondents has chosen more effective option.

The chi-square is test applied, the statistics is 0.6579. The p-value is 0.71969. The result is there is a no significant difference between faculty and students respondents regarding opinion of using e-resources.

**Table 6.** User satisfaction on e-resources access

User Category		Variable ( Binned)			P
		Highly satisfied	Average	Less	
Faculty	Count	47	11	2	0.660698
	%	78.4	18.3	3.3	
Students	Count	108	23	9	
	%	77.1	16.4	6.5	

The table 6 shows that, 78.4 percentages of the faculty respondents are highly satisfied, followed by 18.3 percentages are at average satisfied. 77.1 percentage of students respondents are highly satisfied, followed by 16.4 percentage are at average satisfied and 6.5 percentage at less satisfied. The chi-square is test applied, the statistics is 0.8289. The p-value is 0.660698. The result is there is a no significant difference between faculty and students respondents regarding satisfaction level of using e-resources.

**Table 7.** Impact of e-resources

Impact of e-resources	Faculty	Students
Improving the library status and services	43 (71.7)	87 (62.1)
Enhancing knowledge and skill	52 (86.7)	112 (80.0)
Improving the user Communication	55 (91.7)	118 (84.3)
Expanded reading possibility	38 (63.3)	66 (47.1)

Note :- Multiple answers are permitted, N=200

The table 7 indicates that, 91.7 percentage of faculty respondents are agreed improving in their communication, 86.7 percentage of faculty respondents are agreed that improve knowledge and

skill, and 63.3 percentage of faculty are agreed with they have expanded reading possibility. 84.3 percentage of students' respondents are agreed improving in their communication, 80.0 percentage

of students are agreed enhancing knowledge and skill, 47.1 percentage of students respondents are agreed expanded reading possibility.

**Table 8.** Problems faced in accessing e-resources

Description	Agree	Disagree	No opinion	Mean	Rank
Lack of system availability	118 (59.0)	63 (3.15)	19 (9.5)	2.495	3
Lack of internet speed	53 (26.5)	136 (68.0)	11 (5.5)	2.210	4
Lack of Wi-Fi network	132 (66.0)	60 (30.0)	8 (4.0)	2.620	2
Lack of literacy program	37 (18.5)	127 (63.5)	36 (18.0)	2.005	5
Limited Access	154 (77.0)	29 (14.5)	17 (8.5)	2.685	1

Note :- Multiple answers are permitted, N=200

Table -8 states that, 154 (77.0%) respondents are facing the problem of limited access, 132 (66.0%) respondents are facing the problem Lack of Wi -Fi network, 118 (59.0%) respondents has facing problem lack of system availability.

**FINDING AND SUGGESTION**

- The overall 200 respondents, 140 (70%) of respondents are students, 40 (30%) of respondents are faculty members.
- 40 percentage of respondents have well aware on e-resources.
- 68 percentage of majority of respondents opine that using e-resources they get more information.
- 77.5 percentage of respondents are highly satisfied with their utilized e-resources
- Most of the respondents are agreed with availability of e-resources in NCE library.
- Most of the library users are being used e-resources for the purposes of to improve knowledge upgradation, for current information.
- Majority of respondents are facing problem while accessing e-resources limited access.
- There is significant difference between faculty and students respondents regarding the awareness of e-resources.
- There is no significant difference between faculty and students respondents regarding opinion of using e – resources
- There is no significant difference between faculty and students respondents regarding level of satisfaction using e-resources.

**CONCLUSION**

The Engineering college libraries are the treasure trove of knowledge, catering to the needs of scholars, students, faculty and others who are directly associated with the mainstream of higher education. The e-resources are an inseparable part of today's educational system. The dependency on the e-resources and its services is increasing every day and the academic community; particularly the college users are more and more dependency on the e-resources for their various educational and research purposes.

The present study shows that the use of e-resources has created a great impact upon users of National College of Engineering library, in their impact of e-resources services. This study reveals that awareness of e-resources among the users, purpose of using e-resources, level of satisfaction using e-resources and problems faced while accessing e-resources by the NCE library users. This study helps the librarian to know the use, impact and importance of e-resources in academic environment.

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