Efficacy of Electronic Resources in Teaching–Learning Process for Faculties in CMR College of Engineering and Technology, Hyderabad, Telangana: A Survey

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Abstract
This paper evaluates the use of C M R College of Engineering and Technology, College Library in Hyderabad (Telangana), India. A survey of 73 faculty members is conducted through a questionnaire. The analysis of the collected data covers the use of electronic resources and how the electronic resources are improving the academic careers of the faculty and also what are the problems that are faced in using the electronic resources. This concludes that the main intention of the use of electronic resources has been the academic interest of the users.

Keywords: E-Resources, faculty members, utility surveys

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INTRODUCTION
CMR College of Engineering & Technology (CMRCET for short) is sponsored by MGR Educational Society, which was established in 2002. The college is situated 20 Km away from Secunderabad Railway Station on Hyderabad - Nagpur National Highway (Medchal Road), Telangana, and India. The college is located in 10 acres of serene environment which is lush green and free of pollution. The CMRCET has completed 15 years of dedicated and excellent service in field of technical education. CMRCET is fully equipped to conduct under graduate and post graduate courses in different branches of engineering. It has an excellent infrastructure, highly motivated and dedicated faculty. Thus CMRCET has made a mark in Engineering Education System through an excellent teaching and learning process. The academic results of the college are always among the top in the colleges affiliated to JNTU Hyderabad. An effective industry interaction setup is built to achieve the objective of exposing the students to practical aspects of engineering [1].

The central library was started in the year 2002. Since then, it has grown in size and content of services. It stands as a Wi-Fi Library with enhanced digital resources. In includes books, journals, e-journals, e-books, CD-ROM, audio and video cassettes and other e-reference sources to the faculty, students, staff and alumnus under the intranet and internet environment

SCOPE AND LIMITATION
The study is confined to the faculty members of CMRCET College, Hyderabad regarding the use of electronic resources. Its aim is to fulfill the academic needs of the faculty members and it covers electronic resources, namely CD-ROMs, OPACs, e-books, e-journals and internet [2].

OBJECTIVES OF THE STUDY
- To know the availability of different types of electronic resources in CMRCET library.
- To study the use of different types of electronic resources by the faculty members.
- To study the purpose and utilization of the electronic resources by the faculty members.
- To create awareness about the web resources available for the use of faculty members.

- To understand and assist the end users in the problem faced during the use of web resources.
- To update and upgrade the level of knowledge and information about more related web resources.
- To collect the feedback about web resources already availed for access.

METHODOLOGY

A questionnaire consisting of nine questions was designed to elicit the opinion of the faculty members. These were distributed among the faculty members and the required data was collected which was further supplemented by informal discussions with the faculty [3]. The analysis and interpretation of the data is presented in the subsequent sections.

ANALYSIS AND DISCUSSION

Table 1 indicates that majority (75.35%) of the respondents is postgraduates in technology and 4.10% of the respondents are bachelor's degree holders in engineering. At the same time 4.10% of the faculty members are postgraduates with Ph.D. degrees followed by 16.43% of the faculty members are masters' degree holders [3].

Table 2 reveals that 64.38% of male faculty members work in CMRCET, whereas only 35.61% of the female faculty members earn their livelihood in this profession. This is a glaring example of sex-ratio in balance of the working community.

Table 1: Qualification –Wise Distribution of Respondents.

Qualification	No. of Responses	Percentage
M.Tech	55	75.35
B.E	3	4.10
M.SC.,Ph.D	3	4.10
M.SC	12	16.43
Total	73	100.00

Table 2: Sex-Wise Distribution of Faculty Members.

Sex	No. of Responses	Percentage
Male	47	64.38
Female	26	35.61
Total	73	100.00

Table 3 shows that only 6.84% of the faculty members have more than 20 years of experience in teaching and at the same time 23.28% of the faculty members have 5–10 years of teaching experience, followed by 42.16% teaching experience, whereas 14.43% of respondents have 10–15 and 11.00% faculty members have 15–20 years of teaching experience respectively.

The designation-wise distribution of respondents is shown in Table 4. Thirty five (48.00%) of the respondents are lectures, followed by 20 (27.39%) of the respondents who are senior lectures, 12 (16.43%) are Assistant Professors and only 8.21% are Professors working in this college [4].

The following Table 5 shows that out of 73 respondents 24(32.88%) of the faculty Members use electronic resources 'One hour' followed by 39(53.42%) who are using 'two hour' whereas, 13.70% of faculty members use 'more than Two hour' of electronic resources in the library.

Table 3: Teaching Experience of Faculty Members.

Experience in years	No. of Responses	Percentage
0–5	31	42.46
5–10	17	23.28
10–15	12	16.43
15–20	8	11.00
Above 20	5	6.84
Total	73	100.00

Table 4: Designation-Wise Distribution of Faculty Members.

Designation	No of Responses	Percentage
Asst. Professor	35	48.00
Asso. Professor	12	16.43
Professor	26	35.6
Total	73	100.00

Table 5: Frequency of Using Electronic Resources by Faculty Members.

Time Spent	Frequency	Percentage
One hour	24	32.88
Two hours	39	53.42
More than Two	10	13.70
Total	73	100.00

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It is multiple choice questions so the percentage cannot be rounded after 100*. Table 6 reveals that majority (44.82%) of the faculty members use electronic resources 'for teaching purposes followed by 16.55% members who are using for their 'Research work' whereas 15.17 and are using to update subject knowledge & general knowledge of information and 11.03 % of faculty members are using 'for communication purposes'.

It is a multiple choice question so percentage cannot be rounded after 100*. Table 7 shows frequency of use of electronic resources by the faculty members. Majority (40.84%) of the faculty members are using 'internet' followed by 36 (25.35%) who are using 'CD-Rom's and 13.38% who are using e-journals'. However, 2.81 % of respondents are using the opac system.

Table 6: *Purpose of Using Electronic Resources.*

Purpose	No of Respondent	Percentage
Research Work	24	16.55
Teaching Purpose	65	44.82
For communication	16	11.03
Finding for relevance information in my specialization	18	12.41
Updating Subject knowledge & GK	22	15.17
Total	145	100.00

Table 7: *Use of Electronic Resources by Faculty Members.*

Types of Electronic Resources	No. of Responses	Percentage
CD-Roms	36	25.35
OPAC	4	2.81
E-Journals	19	13.38
E-Books	14	9.85
Online Database	9	6.33
Internet	58	40.84
Any others	2	1.40
Total	142	100.00

Table 8: *Problems Faced While Using Electronic Resources.*

Problems	No. of Response	percentage
Lack of hardware	11	10.37
Lack of software	15	14.15
Lack of training	22	20.75
Lack of information on electronic resources	19	18.00
Lack of operating funds	8	7.54
Lack of timing	31	29.54
Total	106	100.00

Table 9: *Success Rate of Finding Required Information in Electronic Resources:*

Success Rate	No. of Respondents	Percentage
100%	0	0
75-99%	34	46.57
50-74%	20	27.39
24-49%	15	20.54
Less than 25%	4	5.47
Total	73	100.00

Table 8 shows that 31 (29.24%) respondents have faced problems of 'lack of time' followed by 22 (20.75) of faculty members who indicate 'lack of training 'is the main problem while using electronic resources [5].

The respondents were requested to indicate the success rate in finding the required information in electronic resources. Table 9 shows that 34 (46.57%) of respondents succeeded in the range of 75–99, followed by 20 (27.39%) respondents who succeeded in the range of 50–74 and least percentage (5.47%) of faculties succeeded in the range of less than 25%.

FINDING OF THE STUDY
- Only 6.84 % of the faculty members have more than 20 years of experience in teaching.
- Majority (40.84%) of the respondents use Internet and 36 (25.35%) use 'CD-ROM's.
- Majority of (29.24%) respondents have faced the problem of 'lack of time', and 22(20.75%). faculty members indicate 'lack of training' is the main problem while using electronic resources.

- Regarding the success rate of finding the required information in electronic resources, 34 (46.57%) faculties rated that they have succeeded in the range of 75–99.

SUGGESTIONS
- The authority must conduct training programmers for faculty members regarding how to use the electronic resources effectively.
- Awareness should be created to use E-Journals and E-Books to obtain current information.
- More computer/terminals should be installed in the library for the benefit of the faculty members.
- More funds should be given to acquire the electronic resources.

CONCLUSION
The electronic resources play vital role in all the fields of human life. These have rapidly changed the way of seeking and disseminating information. It is clear from the study that the faculty members of CMRCET College have developed their academic careers. The speed of availability and the easy of accessibility of information make the faculty members use electronic resources more frequently. This study helps the librarian to know the importance of electronic resources in the academic environment.

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