

Users perception Towards Electronics Resources and Services in Dental Health Science Colleges in Davanagere: A Survey

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Abstract

A Lot of research has been done to find out the information needs of various categories of users. This paper attempts to find out the Post Graduate and Under Graduate students of Dental Health Science Colleges in Davanagere, (Karnataka) towards use of electronic resources and services in their respective libraries. For this purpose the authors has designed a set of questionnaire and distributed personally to both PG and UG students (i.e Bapuji Dental College and College of Dental Science Davanagee) to extract the opinion and collect the data for the study.

Keywords: Internet Service, Dental Health Science College, Davanagere Karnataka, Search Engines

1. Introduction

Karnataka State has been established Rajiv Gandhi University of Health Science in 1996 at Bangalore for the regulation and promotion of higher education in health sciences throughout the state. Medicine, Dentistry, Physiotherapy, Pharmacy and Nursing colleges are affiliated to this university conducting courses related to be placed to bring uniform standards in academics and administration. At present 48 Government and private Dental colleges are working and running Post graduates (MDS) and under (BDS) graduate courses.

1.1 Dental Colleges in Davanagere

Bapuji Dental College & Hospital & College of Dental Science (CoDS) was established in 1979

& 1991 respectively and upgraded with the latest information catering to the needs of all specialties of dentistry. These two colleges are running Post (MDS) Graduate and Under (BDS) Graduate courses. The college libraries have all the facilities required information in the form of e- books & e-Journals, Internet for surfing, print out facility etc., The students have the opportunity of browsing the internet from 9 am to 11 pm and there is a separate section for Medline search and also a scanner section thereby providing all the basic needs any student would require to complete his project or thesis.



The following table shows the Electronic sources, services and other facilities available in Both Dental College the Libraries

| Sl. No | Bapuji Dental College (BDC) and College of Dental Science (CoDS) Davanagere | | |
|--------|---|-----------|------|
| | (BDC) | (CoDS) | |
| 1 | bound back volume of journals | 5,404 | 3804 |
| 2 | No. of Books | 1,825 | 2019 |
| 3 | Colored Atlas Series- Atlas series in all specialties | 110 | 87 |
| 4 | Audio Tapes | 105 Nos | 92 |
| 5 | Video Tapes | 168 Nos. | 102 |
| 6 | Transparencies series all specialties | 9794 Nos. | 8015 |
| 7 | The following services are available in both colleges: CD-ROM: Computer based literature search permitting access to MEDLINE & SILVER PLATTER and many full text databases. Interactive Anatomy CD-ROM & Multimedia & CD-ROM. E-mail, Internet & Fax services | | |
| 8 | Computing Services: Dissertation work, data analysis, Laser Printing, Dot Matrix Printing, Color Slides entry & Color setting. Three E-studio Digital Copier networking system and RISO educator copier | | |
| 9 | Computerized Library Services Cataloguing Services like Author, Title, Subject , | | |
| 10 | Circulation Services: Photocopying Services (3 latest Machines) Slides / video viewing services. Audio / video viewing services, Lamination / Spiral binding services. Current awareness services of new acquisitions | | |
| 11 | Physical facilities like display board, new arrival section, water-cooler car parking toilets etc. | | |
| 12 | Timings: 9 am- 11pm. In general holidays 9 am – 1.00pm and this library is open throughout the year except for four days | | |

Table 1: Shows the Electronic Sources, Services and Other Facilities in DCL

2. Scope and Limitation of the Study

The scope of the study is confined to the Under Graduate and Post Graduate students of dental colleges in Davanagere. The study is limited to the electronic resources and services and its impact on the academic activities of the students in the study are

2.1 Objectives of the Study

- ❖ To identify the different types electronic resources and services available;
- ❖ To study the purpose of using of electronics resources and services by the users;

- ❖ To study the extent of use of electronics resources and services;
- ❖ To assess the users perception towards electronic resources and services
- ❖ To suggest suitable measures to improve the electronic resources and services for the benefit of student users.

2.2. Methodology

A separate questionnaire was designed both for librarians and under graduate & post graduate dental students, the questionnaires were distributed to the students personally and approached them to

respond all the questions to best of their knowledge and collected the same with duly filled. A total of 250 questionnaires distributed to PG and UG students of both the colleges and received 200 filled questionnaires (100 from each college).

3. Analysis of the Data

The collected data was analyzed in the following table.s

3.1. Frequency of Visit to Library

The frequency of visit to library is depending upon the nature of library collection, services and physical facilities provided by their respective libraries. The following table 2 shows that, majority (180; 52.63%) of the total respondents visit “everyday” followed; by 29.53% visit their library “once in a week”.

Majority (55.69%) MDS and (50.00%) of BDS students are visit everyday and 32.6% of BDS and 26.58% of MDS students visit their library Once in a week” but, no one students are not at all visit “once in a month and rarely, to their respective libraries.

| SI | Frequency | PG students MDS | UG students BDS | Total |
|--------------|-----------------|---------------------|---------------------|---------------------|
| 1 | Every day | 88 (55.69%) | 92 (50.00%) | 180(52.63%) |
| 2 | Once in a week | 42(26.58%) | 59(32.06%) | 101(29.53%) |
| 3 | Twice in a week | 28(17.72%) | 33(17.93%) | 61(17.83) |
| 4 | Once in a month | 00(0.00%) | 00(0.00%) | 00(0.00%) |
| 5 | Rare | 00(0.00%) | 00(0.00%) | 00(0.00%) |
| Total | | 158(100.00%) | 184(100.00%) | 342(100.00%) |

Table 2: Frequently of Visit to Library

Note: Figures in the parentheses indicate percentage,

Total sample exceeds the required size since the questions are multiple choices.

3.1.1. Time spent by the users in the Library

The responses received regarding time spent in the library by the users are analyzed in table 3. Majority of (33.26%) (MDS & BDS) users have spent “4-6 hours” per day followed by good number (122) of users spent 1-2 hours per day” it represents 26.34% of the total responses. Less (9.93%) percentage of users spent “More than 6 hours”. 32.48% of MDS and 31.28% of BDS students have spent “2-4 hours” in their respective library, followed by 26.75% MDS & 23.31% of BDS students have spent “1-2 hours” per day.

| SI | Particulars (per day) | PG students MDS | UG students BDS | Total |
|--------------|--------------------------|---------------------|---------------------|---------------------|
| 1 | Less than one hour | 17(10.82%) | 22(13.49%) | 39(8.42%) |
| 2 | 1-2 hours | 43(26.75%) | 38(23.31%) | 122(26.34%) |
| 3 | 2-4 hours | 51(32.48%) | 51(31.28%) | 102(22.03%) |
| 4 | 4-6 hours | 25(15.92%) | 27(16.58%) | 154(33.26%) |
| 5 | More than 6 hours | 21(14.2%) | 25(15.33%) | 46(9.93%) |
| Total | | 157(100.00%) | 163(100.00%) | 463(100.00%) |

Table 3: Time Spent in the Library

Total sample exceeds the required size since the questions are multiple choices

3.1.2. Type of Resources Available

The users were requested to indicate type of resources available for their study. The table 4 shows that, majority (24.19%) of students indicate “Internet” followed by 21.10% opined “Dental data

base” is available for their study. Of the total 28.55% and 24.79% MDS students indicate CD-ROMs and Internet is available for their study.

| SI | Type of Resources Available | PG students MDS | UG students BDS | Total |
|--------------|-----------------------------|---------------------|---------------------|---------------------|
| 1 | CD-ROMs | 64(28.55%) | 72(19.09%) | 136(18.27%) |
| 2 | Internet | 91(24.79%) | 89(23.60%) | 180(24.19%) |
| 3 | Dental Database | 83(22.61%) | 74(19.62%) | 157(21.10%) |
| 4 | E-books | 45(12.26%) | 44(11.67%) | 89(11.96%) |
| 5 | E-journals | 41(11.17%) | 46(12.20%) | 87(11.69%) |
| 6 | OPAC | 43(11.71%) | 52(13.79%) | 95(12.76%) |
| Total | | 367(100.00%) | 377(100.00%) | 744(100.00%) |

Table 4: Type of Resources Available

Total sample exceeds the required size since the questions are multiple choices

3.1.3. Type of Services Available in both College Libraries

The students were requested to indicate the type of service available in their colleges, the responses received regarding this is analyzed in the following table 4. Of the total 11.92% of each respondent indicate “Lending of books and other reading materials” and Internet e-mail services. Average 10.00% of users responded “Lending of CD/DVD-ROM’s”, “Reference Service”, and “Computerized bibliographical database Service” are available respectively. 12.5% and 11.40% of BDS and MDS students indicate “Lending of books/journals and

other reading materials” & “Internet E-mail services are available in their respectively libraries.

| SI | Type of Resources Available | PG students MDS | UG students BDS | Total |
|--------------|---|---------------------|---------------------|----------------------|
| 1 | Lending of books/ journals & reading materials | 90(11.40%) | 90(12.5%) | 180(11.92%) |
| 2 | Lending of CD/DVD-ROM's | 79(10.00%) | 79(10.97%) | 158(10.46%) |
| 3 | Reference Service | 82(10.39%) | 75(10.41%) | 157(10.39%) |
| 4 | Computerized bibliographical database Service | 91(11.52%) | 75(10.41%) | 166(10.99%) |
| 5 | Inter Library Loan Services(ILL) | 27(3.42%) | 22(3.05%) | 49(3.24%) |
| 6 | Current Awareness Services (CAS) | 41(5.19%) | 37(5.13%) | 78(5.16%) |
| 7 | On-line Public Access Catalogue (OPAC) Web-OPAC Service | 70(8.86%) | 61(8.47%) | 131(8.67%) |
| 8 | Internet-E-mail Service | 90(11.40%) | 90(12.5%) | 180(11.92%) |
| 9 | Scanning and downloading | 51(6.46%) | 44(6.11%) | 95(6.29%) |
| 10 | Indexing and Abstracting Service | 42(5.32%) | 32(4.44%) | 74(4.90%) |
| 11 | News paper clipping Service | 22(2.78%) | 18(2.05%) | 40(2.64%) |
| 12 | Translation Service | 30(3.80%) | 22(3.05%) | 52(3.44%) |
| 13 | Photocopy Service | 75(9.49%) | 75(10.41%) | 150(9.93%) |
| Total | | 790(100.00%) | 720(100.00%) | 1510(100.00%) |

Table 5: Type of Services Available in both Colleges

Total sample exceeds the required size since the questions are multiple choices

3.1.4 Purpose of using Electronic Resources: Users opinion

The following table 5 clearly shows the purpose of using digital resources by the students. Majority of

both the respondents opined (22.73%) “To search for specific diseases, drug & patient care information/literature followed by 20.08% and 19.06% of users indicate “to study the current events in dental sciences” and to collect information/literature on dental management respectively. 21.20 00% of BDS students used digital resources for the purpose of “To collect information/literature on dental management” followed by 23.78% of MDS and 21.51% of BDS students are used for the purpose of “To search for specific diseases, drug & patient care information/literature.

| Sl. No. | Purpose | PG students MDS | UG students BDS | Total |
|---------|---|-----------------|-----------------|--------------|
| 1 | For communication | 21(5.73%) | 19(6.01%) | 40(5.86%) |
| 2 | To study the current events in dental sciences | 66 (18.03%) | 64 (20.25%) | 130 (19.06%) |
| 3 | To collect information/literature on dental management | 70 (19.13%) | 67 (21.20%) | 137 (20.08%) |
| 4 | To collect and use of online database | 55(15.02%) | 45(14.24%) | 100(14.66%) |
| 5 | To search for specific diseases, drug & patient care information/literature | 87 (23.78%) | 68 (21.51%) | 155 (22.73%) |

| Digital Resources | Master of Dental Surgery (MDS) | | | | Bachelor of Dental Surgery (BDS) | | | |
|-------------------------|--------------------------------|---------------|---------------|---------------|----------------------------------|---------------|---------------|---------------|
| | 4 | 3 | 2 | 1 | 4 | 3 | 2 | 1 |
| e-books | 20 (8.47%) | 27 (9.92%) | 17 (9.94%) | 12 (10.25%) | 32 (14.74%) | 37 (15.87%) | 19 (10.32%) | 10 (6.25%) |
| e-journals | 29 (12.28%) | 33 (12.13%) | 15 (7.89%) | 19 (16.23) | 24 (11.05%) | 26 (11.15%) | 16 (8.69%) | 13 (8.12%) |
| Bibliographic Databases | 18 (7.62%) | 23 (8.45%) | 13 (6.84%) | 10 (8.54%) | 17 (7.83%) | 21 (9.01%) | 14 (7.60%) | 10 (6.25%) |
| Full text Databases | 31 (13.13%) | 29 (10.66%) | 33 (17.36%) | 20 (17.09%) | 23 (10.59%) | 26 (11.15%) | 18 (9.78%) | 17 (10.62%) |
| Clinical Databases | 33 (13.98%) | 36 (13.23%) | 21 (11.05%) | 00 (00.00%) | 40 (18.43%) | 36 (15.45%) | 26 (14.13%) | 22 (13.76%) |
| Online Dental database | 47 (19.91%) | 41 (17.07%) | 19 (10.00%) | 00 (00.00%) | 28 (12.90%) | 31 (13.30%) | 41 (22.28%) | 32 (20.00%) |
| In- house Databases | 27 (11.44%) | 38 (13.97%) | 23 (12.10%) | 14 (11.96%) | 21 (9.67%) | 14 (6.00%) | 20 (10.86%) | 23 (14.37%) |
| Online Lecture Notes | 12 (5.08%) | 18 (6.61%) | 15 (7.89%) | 42 (35.89%) | 19 (8.75%) | 18 (7.72%) | 13 (7.06%) | 14 (7.60%) |
| CD/DVD's | 19 (8.05%) | 27 (9.92%) | 34 (17.89%) | 00 (00.00%) | 13 (5.99%) | 24 (10.30%) | 17 (9.23%) | 19 (11.88%) |
| Total | 236 (100.00%) | 272 (100.00%) | 190 (100.00%) | 117 (100.00%) | 217 (100.00%) | 233 (100.00%) | 184 (100.00%) | 160 (100.00%) |

Table7: Users Opinion Towards Extent of use of Electronic Resources

Note: 4-, More Frequently, 3-Frequently, 2-Occasionally, 1-Rarely.

| | | | | |
|---|---|---------------|---------------|---------------|
| 6 | For articles preparation and presentation | 39 (10.65%) | 22 (6.96%) | 61 (8.94%) |
| 7 | Others Technical sights | 28(7.65%) | 31(9.81%) | 59(8.65%) |
| | Total | 366 (100.00%) | 316 (100.00%) | 682 (100.00%) |

Table 6: Purpose of using Electronic Resources

Total sample exceeds the required size since the questions are multiple choices

3.1.5 Users Opinion Towards Extent of use of Electronic Resources

The extent of use of electronic resources by the users is analyzed in table 7. Majority of MDS & students used “online dental database “More frequently” and frequently” it represents 19.91% and 17.07%, followed by 22.28%, 20.00% of BDS students is also used “online dental database Occasionally and rarely”. “Full text database is used by the MDS students “occasionally” and rarely” it represents 17.36% and 17.09%. The “CD/ DVDs” are used “occasionally” by MDS students it represents 17.89% of the total responses. More frequently” the “clinical database” is used 18.43% and 15.45% are used “frequently” by BDS students for their study.

3.1.6 Users Opinion Towards Electronic Resources has Hindered for their Academic Career

Limited time and lack of effective information retrieval skills is the main barrier to using electronic resources. So effective information retrieval skills and knowledge is required to search databases for a specific query, a smaller amount of information is often retrieved, and the time spent searching databases reduced. However, with more effective search engines and user-friendly interfaces, in-depth information retrieval skills would not be as essential and therefore the time spent using the source would also be reduced.

The following table 8 figure ,1 shows that, Majority (31.01%) of respondents opined “too much information is retrieved” followed by 26.96% opined “electronic resources are “time consuming”. Less percentage of students indicates “lack of IT knowledge and electronic resources often distracts from doing work” is hindered academic career of the students.

| Sl. No. | Responses | PG students MDS | UG students BDS | Total |
|---------|--|--------------------|--------------------|------------------|
| 1 | Too much information is retrieved | 74 (30.83%) | 64 (31.21%) | 138 (31.01%) |
| 2 | Time consuming | 52 (21.66%) | 68 (33.17%) | 120 (26.96%) |
| 3 | Limited access to computer terminals | 58 (24.16%) | 34 (16.58%) | 92 (20.67%) |
| 4 | Lack of IT knowledge to effectively utilize the services | 26 (10.83%) | 22 (10.73) | 48 (10.78%) |
| 5 | Using electronic resources often distracts from doing work | 30 (12.5%) | 17 (8.29%) | 47 (10.56%) |
| | Total | 240 (100.00%) | 205 (100.00%) | 445 (100.00%) |

Table 8: Electronic Resources has Hindered for Academic Career

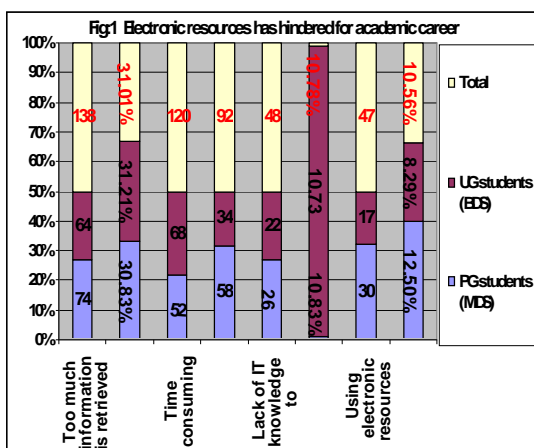


Figure: 1

Total sample exceeds the required size since the questions are multiple choices

3.1.7 Type of CD/ DVD-ROM’s Used

The CD and DVD ROM are for the major sources of information for users as they carry useful information on various topics of study. Keeping this in mind a question was raised to indicate the types of CD/DVD ROM’s used by them. The following table 9 exhibits that, majority (27.63%) of respondents used “CD-ROM’s on their specific subject” followed by 24.56% used “CD-ROM’s on Dental science” and 23.90% of users are used “Multimedia CD’s” for their academic work. Majority (28.42% & 27.02%) of MDS and BDS students are used CD ROMs on their specific subject”, followed by 25.38 and 23.93 percent of MDS and BDS respondents are used CD-ROM’s on Dental science. The software CD’s and audio-visual CD’s are less used by them.

| Sl. No. | Types of CDs | PG students | UG students | Total |
|---------|---------------------------------|------------------|------------------|------------------|
| | | MDS | BDS | |
| 1 | CD-ROM's on Dental science | 50 (25.38%) | 62 (23.93%) | 112 (24.56%) |
| 2 | Software CD's | 18(9.13%) | 11(4.24%) | 29(6.35%) |
| 3 | Multimedia CD's | 40 (20.30%) | 69 (26.64%) | 109 (23.90%) |
| 4 | CD-ROM's on my specific subject | 56 (28.42%) | 70 (27.02%) | 126 (27.63%) |
| 5 | Audio/Video CD's | 28 (14.21%) | 28 (10.81%) | 56 (12.28%) |
| 6 | Indexing and abstracting CD's | 05 (2.53%) | 19 (7.33%) | 24 (5.26%) |
| | Total | 197 (100.00%) | 259 (100.00%) | 456 (100.00%) |

Table 9: Types of CD/ DVD-ROM's Used

Total sample exceeds the required size since the questions are multiple choices

3.1.8 Learned to use of Electronics Resources

The following table 10 Figure 2 shows that, most popular method of acquiring the necessary skills to use electronic resources was via Trial and Error it represents 26.17 % of the total responses, followed by 27.61% MDS & 25.00 of BDS students are learned to use electronic resources “Trial and Error”. Majority (27.18%) of respondents taking guidance from departmental technicians followed by 20.12% of BDS students are taking guidance from friends”.

| Sl. No. | Types of CDs | PG students | UG students | Total |
|---------|-----------------------------|----------------|----------------|----------------|
| | | MDS | BDS | |
| 1 | Self taught | 14 (10.44%) | 19 (11.58%) | 33 (11.07%) |
| 2 | Guidance from my friends | 24 (17.91%) | 33 (20.12%) | 57 (19.12%) |
| 3 | Guidance from Library staff | 22(16.41%) | 27(16.46%) | 49(6.44%) |

| | | | | |
|---|---|----------------|----------------|----------------|
| 4 | Trail and error | 37 (27.61%) | 41 (25.00%) | 78 (26.17%) |
| 5 | Courses offered by the private institutes | 00 (00.00%) | 00 (00.00%) | 00 (00.00%) |
| 6 | Guidance from departmental technicians | 37 (27.61%) | 44 (26.82%) | 81 (27.18%) |
| | Total | 134 (100%) | 164 (100%) | 298 (100%) |

Table 10: Learned to use of Electronic Resources

Total sample exceeds the required size since the questions are multiple choices

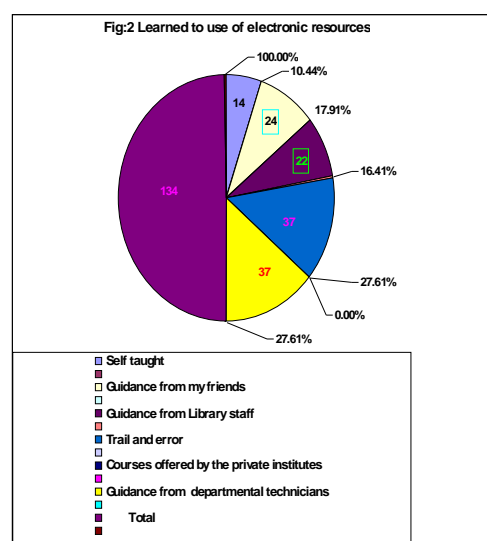


Figure2: Learned to use of Electronic Resources

At the time of personal interview with BDS students, the author came to know that, they don't have any idea in collecting dental database/ literature/ clinical database etc., hence they are taking the help of their senior friends.

3.1.9. Preference of Using search engines

The following table 11 shows that, 29.28% and 25.82% of both UG and PG students preferred to use ‘Yahoo’ and ‘Medical world search’ for the academic work, followed by 22.01 of the total respondents prefer to use ‘Google’.

| Sl. No. | Search Engines | PG students MDS | UG students BDS | Total |
|---------|----------------------|-----------------|-----------------|----------|
| 1 | Google | 6921.76 | 5822.30 | 12722.01 |
| 2 | Yahoo | 9128.70 | 7830.00 | 16929.28 |
| 3 | Medical world search | 7623.97 | 7326.92 | 14925.82 |
| 4 | MSN | 299.14 | 176.53 | 467.97 |
| 5 | Ask Jeeves | 195.99 | 135.00 | 325.54 |
| 6 | Excite | 123.78 | 103.84 | 223.81 |
| 7 | Alta Vista | 92.83 | 114.23 | 203.46 |
| 8 | Metacrawler | 123.78 | 000.00 | 122.07 |
| | Total | 317 | 260 | 577 |
| | | 100.00 | 100.00 | 100.00 |

Table 11: Preference of Using search Engines

Total sample exceeds the required size since the questions are multiple choices

3.1.10. Standard of Work would Suffer without Electronic Resources: User Opinion

The received responses regarding standard of academic work would suffer without electronic resources this is analyzed in the following table 12.

| Sl. No. | Search Engines | PG students MDS | UG students BDS | Total |
|---------|----------------|------------------|------------------|-----------------|
| 1 | Agreed | 42 (42.00%) | 50 (50.00%) | 92 (45.77%) |
| 2 | Disagreed | 47 (47.00%) | 40 (40.00%) | 87 (43.28%) |
| 3 | Not responded | 12 (12.00%) | 10 (10.00%) | 22 (10.94%) |
| 5 | Total | 100 (100.00%) | 100 (100.00%) | 201 (00.00%) |

Table 12: Standard of work would suffer without Electronic Resources

Total sample exceeds the required size since the questions are multiple choices

The above table Figure 3, exhibits that, of the total 92 (45.77%) responded agreed and 43.28% disagreed the standard of work suffer without electronics resources At the same time 50.00% of BDS and 47.00% of MDS students agreed and disagreed respectively.

4. Findings of the Study

- 1) Majority (180; 52.63%) of respondents visit “everyday” and 29.53% visit “once in a week”. to their libraries
- 2) Majority of (33.26%) (MDS & BDS) users are spent “4-6 hours” per day good number (122) of users spent 1-2 hours per day” it represents 26.34% of the total responses.
- 3) Majority (24.19%) of students indicate “Internet” and 21.10% opined “Dental data base” is available for their study. Of the total 28.55% and 24.79% MDS students indicate CD.Roms and Internet is available for their study.

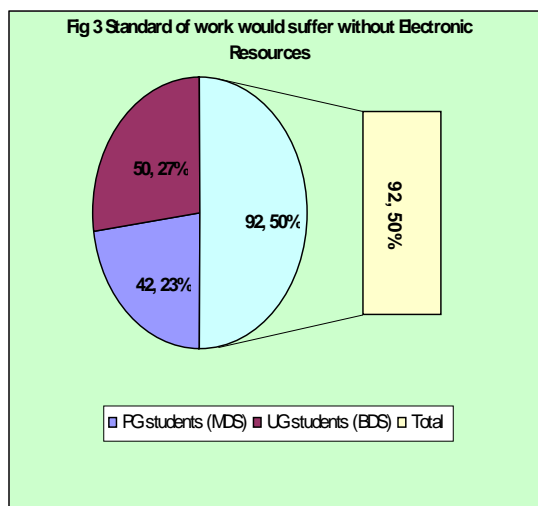


Figure 3: Standard of Work Suffer without Electronic Resources

4) 11.92% of each respondent indicate “Lending of books and other reading materials” and Internet e-mail services are available. Average 10.00% of users responded “Lending of CD/DVD-ROM’s”, “Reference Service”, and “Computerized bibliographical database Service” are available in there respective libraries.

5) Majority (22.73%) of respondents opined “To search for specific diseases, drug & patient care information/literature and 20.08% and 19.06% of users indicate “to study the current events in dental sciences” and to collect information/literature on dental management respectively.

6) Majority of MDS & students used “online dental database “More frequently” and frequently” it represents 19.91% and 17.07%. The clinical database is used by BDS students more frequently (18.43%) and frequently used 15.45%.

7) 31.01% of respondents opined “too much information is retrieved” and 26.96% opined “electronic resources are “time consuming”.” is hindered academic career of the students.

8) Majority (27.63%) of respondents used “CD-ROM’s on their specific subject” and 24.56% used “CD-ROM’s on Dental science”. The software CD’s and audio-visual CD’s are less used by them.

9) 29.28% and 25.82% of both UG and PG students are preferred to use ‘Yahoo’ and “Medical world search” and 22.01% used Google for their academic work.

10) Majority (45.77%) of responded agreed and 43.28% disagreed the standard of work suffer without electronics resources. At the same time

50.00% of BDS and 47.00% of MDS students also agreed and disagreed respectively.

5. Suggestions

Based on the findings of the study and also suggestions made by; the students are summarized to improve the present conditions of the library.

1) More number of E-books and E-journals (Indian & Foreign) are subscribed. Hence, the concerned authorities should enhance the library budget.

2) proper training is needed in proper utilization of electronics and services

3) Information retrieval skills training to be embedded in the curriculum, undertaken at an appropriate time and supported by academic staff.

4) More high speed computer/terminals are required for developing better technical library.

5) Proper training is needed for library staff to handle the electronics resources and services then only it is possible to give better service to their users.

6) An updated online public access catalogue (OPAC) of electronic resources should be made available in the library portal.

7) Inter library loan facility should be provided to meet the research needs of the users these colleges.

6. Conclusion

Today’s users have meet their information needs either print formats or access online library resources and services via networks. There should be complete campus networking with internet

browsing facility in hostels. The library plays a leading role in students -library relationships and in instructional services such as orientation and training in use of library resources. If efficient and effective use is to be made of library's electronics resources and services, then user training will have to increase in both intensity and coverage. It is important to remember that the ability of library staff to keep up to date is necessary, and, therefore, training for them is crucial as well.

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