# DIGITAL RESOURCES IN ACCREDITED ENGINEERING COLLEGE LIBRARIES AFFILIATED TO SAVITRIBAI PHULE UNIVERSITY, PUNE, MAHARASHTRA: A STUDY

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**Abstract**: - *The investigator has considered 16 accredited (NBA) engineering colleges libraries, affiliated to Savitribai Phule University, Pune, Maharashtra, India for this study. Digital Resources are the most important areas of research in almost all areas of engineering higher education. Any teacher can apprehend not only the research method but it is right with the help of digital resources. The faculty members, research scholars, and scientists are the most relevant to digital resources. Nowadays, the availability of digital resources of the engineering college library is common. But their right and maximum use is also a matter of concern and Investigation. Studies are based on random sampling by all 16 accredited (NBA) engineering college libraries. The amenity and speed of the internet and digital resources are glamorous to users.*

**Keywords : Digital Resources, NBA, Savitribai Phule, Engineering, AICTE**

## 1. Introduction

Internet and web are ceaselessly being strained development of a new model of communication as sources of technology, the sources have been changed the powerful tool of communication technology. The ability to unfurl objects is huge because the print media can successfully carry out the geographical boundaries. Due to the development of information and communications technology, information handling has changed greatly. ICT has long-term effects thickly in all regions as well as in the education of higher engineering Activity. In the accredited engineering college libraries affiliated to Savitribai Phule University, Pune, Maharashtra library has made efforts to optimize the use of digital resources including web-based e-resources. Engineering college libraries affiliated to

Savitribai Phule University, Pune has been acquiring a large number of digital resources for its users. The Library now has access full-text e-journals, e-books, and e-databases which can be accessed by the users in the library homepage.

## 2. Objective

Studies have the following objectives

1. To find out the magnitude of sundry information resources for their education, study, and research.
2. To find out the diversity in the pattern of use of online digital resources by users belonging to separate departments.
3. To determine the digital resources available on the Internet.
4. To suggest measures to encourage the use of digital resources through the Library of the accredited Engineering College affiliated to Savitribai Phule University, Pune,

## 3. Scope & Limitations

Researchers have selected only 16 engineering colleges to study the study of NBA Engineering Colleges affiliated to Savitribai Phule University, Pune. This special study is limited to only NBA accredited engineering colleges and this study does not include all affiliated engineering colleges.

## 4. Role of Government Agency in Higher Technical Education:

**AICTE**- All India Council Technical Education was established in 1945 to maintain the approval and standards of engineering colleges. The institute is set up to look after all these things

**NBA:-** In 1949, AICTE established the National Certification Board (NBA) and in 2010 it became an independent body and in 2014 India became permanent signatory to the Washington Accord (WA), which recognizes the global equivalents of engineering terms. NBA recognized tier I engineering institutes are valid in 20 countries. The NBA is more specific that it is expected that graduate engineers have a degree of qualification as defined in the Washington Agreement. It could be that there might be a mix of excellent programs and some average programs in an organization. The NBA Accredited Program means that this program matches all ten criteria and this is very specific.

## 5. Related Studies

The researcher has reviewed only those studies that are related to the current study.

**Sharma Chetan and Singh Harpal (2012)**[1] described the electronic access. Study results show that there are many e-processing in SIDE teachers and M. Tech's very favorite students and they Use most of these resources with confidence. 88.88% of Respondents Most prefer to use e-mail where 58.33% respondents prefer IEEE, Science Direct and Springer Link to Use E-Journal Most preferred database by responsive and more 65% of respondents downloaded full-text journals.

**Sharma Pushpa and Sharma Amit Kumar (2018)**[2] discussed the e-resources and their use. In the current scenario, libraries of engineering colleges are expected to increase the Accessibility of digital resources plays a vital role in carrying out the investigation efficiently information about educational needs. In this way, users can get information according to their information for digital resources, their computers, laptops and mobile phones should be used anywhere. It is suggested that with more samples, such a study with a large sample Private colleges will be able to prove the findings of this primary study.

**Ramaiah C.K. (2012)**[3] described the users perception about eBooks. Users are generally eager to use eBooks Print books are primarily in today's world. At present, the selection of users to use e-books or printed books depends on the need for information whether it is eBook or printed book. However, it has also been found that users generally do not use bulk e-books as print books. Most users have suggested that eBooks are portable, flexible, and are not readable as their print counterparts and are still more expensive. We hope that prices will be reduced in two years, as technology improves, most related issues will be removed so that users can start using them in a large number of libraries, offices and home environments.

## 6. Methodology

A survey based method that uses less time for this study. The structured questionnaire was sent to NBA accredited engineering college. To learn about online resources affiliated to Savitribai Phule University, Pune. 20 paper-based questionnaires sent to an engineering college library. 16 (80%) Most respondents gave questioner to the investigator.

Table No.1 Following engineering colleges have been consider for the study.

| Sr. No. | Year of Establishment | Institute Name |
|---|---|---|
| 1 | 1854 | College of Engineering , Pune |
| 2 | 1983 | B.R.A.C.T's Vishwakarma Institute of Information Technology, Kondhwa (Bk.), Pune |
| 3 | 1983 | MAEER's Maharashtra Institute of Technology, Pune |
| 4 | 1983 | Pravara Rural College of Engineering, Loni, Pravaranagar, Ahmednagar. |
| 5 | 1983 | SRES's Sanjivani College of Engineering, Kopargaon |
| 6 | 1984 | K. K. Wagh Institute of Engineering Education and Research, Nashik |
| 7 | 1991 | MKSSS's Cummins College of Engineering for Women, Karvenagar, Pune |
| 8 | 1995 | Army Institute of Technology ,Pune |
| 9 | 1996 | Sinhgad College of Engineering, Vadgaon (BK), Pune |
| 10 | 1998 | DR D Y Patil Institute of Technology, Pune |
| 11 | 1998 | Shri Vithal Education and Research Institute's College of Engineering, Pandharpur |
| 12 | 2001 | JSPM's Rajarshi Shahu College of Engineering, |

| | | |
|---|---|---|
| | | Tathawade, Pune |
| **13** | 2002 | Bansilal Ramnath Agarawal Charitable Trust's Vishwakarma Institute of Technology, Bibwewadi, Pune |
| **14** | 2006 | G.H.Raisoni College of Engineering & Management, Wagholi, Pune |
| **15** | 2006 | MET Bhujbal Knowledge City MET League's Engineering College, Nashik. |
| **16** | 2008 | Al-Ameen Educational and Medical Foundation, College of Engineering, Koregaon, Pune |

## 1. Data Analysis

Table No. 2- Categories of the users

| | **Categories of the users** | | |
|---|---|---|---|
| **Sr.No.** | **Categories** | **Respondent** | % |
| 1 | Students | **16** | **100 %** |
| 2 | Faculty | **16** | **100%** |
| 3 | Staff | **16** | **100%** |
| 4 | Researchers | **8** | **50%** |

Table No. 2 reveals that most students, teachers and employees use 16 (100%) of all Colleges and 8 (50.00%) researchers.

Table No.3. Collection of Digital Resources

| | | **Respondent** | | | |
|---|---|---|---|---|---|
| **Sr. No.** | **Nature of Digital Resources** | **Yes** | **%** | **No** | **%** |
| 1 | E- Books | 16 | 100 | 0 | 0 |
| 2 | E-Journals | 16 | 100 | | 0 |
| 3 | E- Database | 14 | 87.5 | 2 | 12.5 |
| 4 | NPTEL Videos | 15 | 93.75 | 1 | 6.25 |
| 5 | E- Patents | 11 | 68.75 | 5 | 31.25 |
| 6 | E-Standards | 12 | 75 | 4 | 25 |
| 7 | E- Projects Report | 9 | 56.25 | 7 | 43.75 |

Table No. 3 depicts Collection of Digital Resources e.g. E-books, e-Journals, e-database, NPTEL, E-Technical Report, E-Standards and E-Dissertation's. Almost all the engineering colleges' libraries are available digital resources.

Table No. 4 Total Collection of Digital Resources

| Sr. No. | Number of Online Resources | **Nature of Digital Resources** | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | E-Books | % | E-Journals | % | E-Database | % | NPTELVideos | % | E-project Report | % |
| 1 | Less than 500 | 9 | 56.25 | 7 | 43.75 | 12 | 75 | 15 | 93.75 | 6 | 37.5 |
| 2 | 501 to 1000 | 5 | 31.25 | 5 | 31.25 | 2 | 12.5 | 0 | 0 | 3 | 18.75 |
| 3 | Greater Than 1001 | 2 | 12.5 | 4 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Total | 16 | 100 | 16 | 100 | 14 | 87.5 | 15 | 93.75 | 9 | 56.25 |

Table No. 4 indicates that 56.25% of college libraries have less than 500 e-books, 31.25% of college libraries have more than 500 and more than 1000, and 12.25% college libraries have greater than 1001 e-books. 43.75% college libraries have less than 500 e-journals, 31.25% college libraries have more than 501 e-journals, 25.% college libraries are more than 1000 and greater than 1001 e-journals.75% of college libraries have less than 500 e-database collection, 12.5% college libraries have more than 501 e-database collections. 93.75% college libraries less than 500 –NPTEL video and 18.75% college libraries more than 501.

Table & Graph No. 5 Computers / ICT infrastructure

| | | Respondent | | | |
|---|---|---|---|---|---|
| **Sr. No.** | **Types of Server** | **Yes** | **%** | **No** | **%** |
| 1 | Central Server | 14 | 87.5 | 2 | 12.5 |
| 2 | Workstation for users | 11 | 68.75 | 3 | 18.75 |
| 3 | Library Automation Server | 16 | 100 | 0 | 0 |
| 4 | Web server | 16 | 100 | 0 | 0 |
| 5 | CD-Net Server | 9 | 56.25 | 7 | 43.75 |
| 6 | Institutional Repository Server (e.g. Dspace or any other) | 7 | 43.75 | 9 | 56.25 |

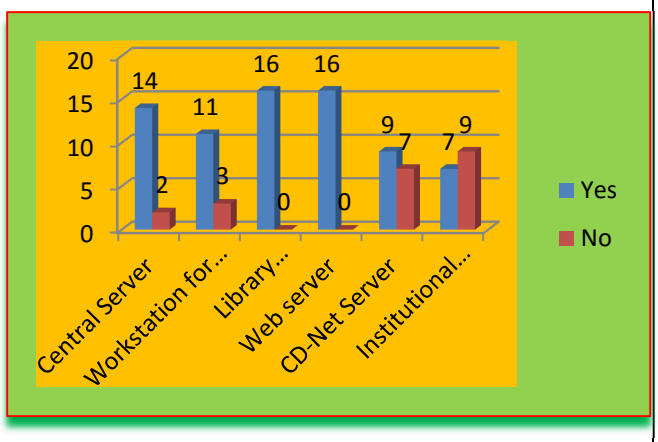
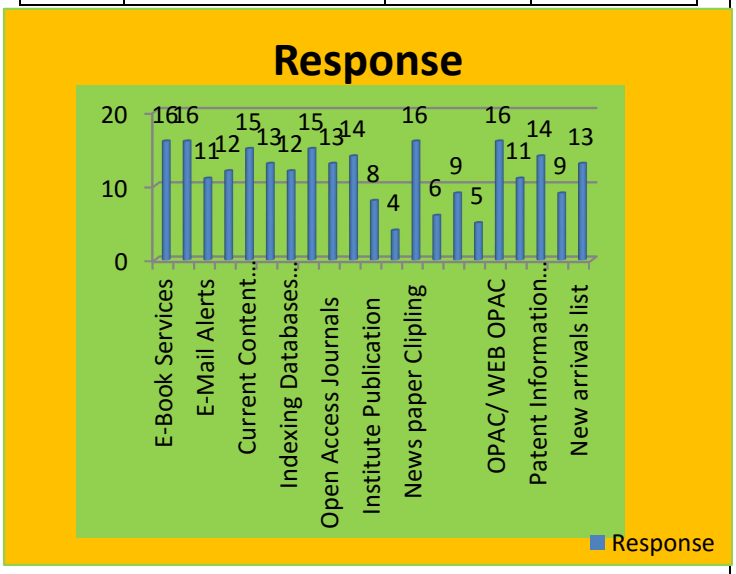



Table and Graph No.5 depicts 16 (100%) Library automation Server and Web Server in all the colleges,14(87.5%) Central Server facility whereas 2(12.5) no central server, 9(56.25%) CD-Net Server facility whereas 7(43.75%) no CD-Net Server and 7(43.75%) Institutional repository server, 9(56.25%) no separate server for IR.

Table & Graph No. 6 digital Resources Service provided by engineering college libraries

| Sr.No. | Online Services | Response | Percentage |
|---|---|---|---|
| 1 | E-Book Services | 16 | 100 |
| 2 | E-Journals Services | 16 | 100 |
| 3 | E-Mail Alerts | 11 | 68.75 |
| 4 | Library Web Page | 12 | 75 |
| 5 | Current Content Services | 15 | 93.75 |
| 6 | Database Services | 13 | 81.25 |

| | | | |
|---|---|---|---|
| 7 | Indexing Databases Service | 12 | 75 |
| 8 | Abstracting Databases | 15 | 93.75 |
| 9 | Open Access Journals | 13 | 81.25 |
| 10 | E-Theses & Dissertations | 14 | 87.5 |
| 11 | Institute Publication | 8 | 50 |
| 12 | Self-Circulation | 4 | 25 |
| 13 | Newspaper Clipling | 16 | 100 |
| 14 | Electronic Document Delivery | 6 | 37.5 |
| 15 | Networked CD ROM Database Service | 9 | 56.25 |
| 16 | Electronic Publishing | 5 | 31.25 |
| 17 | OPAC/ WEB OPAC | 16 | 100 |
| 18 | Online Reference Services | 11 | 68.75 |
| 19 | Patent Information Services | 14 | 87.5 |
| 20 | Standard Information Service | 9 | 56.25 |
| 21 | New arrivals list | 13 | 81.25 |




Data presented in Table and graph 6 indicate the digital resources service provided by engineering college libraries e.g. e-books, e-Journals, e-database, NPTEL, E-Technical Report, E-Standards and E-Dissertation's. etc almost all the engineering colleges' libraries provided digital library services.

## 7. Major Findings

This study will definitely assist in building a digital resource collection that will help to meet the thirst of engineering college users. According to data analysis, the E-books, e-Journals, e-database, NPTEL, E-Technical Report, E-Standards and E-Dissertation's are available in the colleges. Study also reveals that the digital resources services. Table No. 4 indicates that 56.25% of college libraries have less than 500 e-books, 31.25% of college libraries have more than 500 and more than 1000, and 12.25% college libraries have greater than 1001 e-books. Table and Graph No.5 depicts 16 (100%) Library automation Server and Web Server in all the colleges. Data presented in Table and graph 6 indicate the digital resources service provided by engineering college libraries e.g. e-books, e-Journals, e-database.

## 8. Conclusion

Learning, doctrine, and research are the main concerns of the higher Engineering education system. The library is an essential organ; however, it is an integral part of the engineering higher education system, whose primary function is not only to get resources but also to provide timely service to the engineering education community. Creating digital resources is important, which enriches a large number of the

educational library system. For many reasons, educational libraries offer digital resources priority for print archives for optimal use.

It has been said that NPTEL video and digital resources are useful for various educational and educational departments in various educational branches. Therefore, it is important to train the users of such colleges according to priority.

## 9. References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