

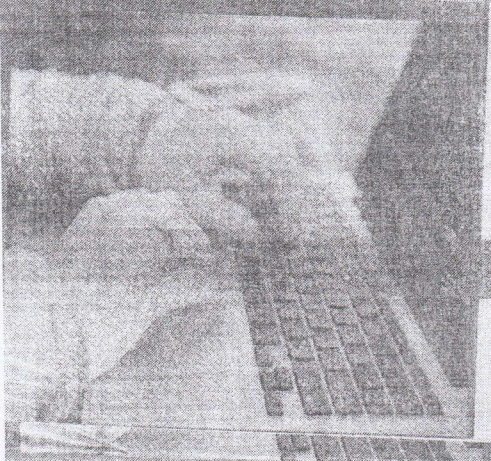
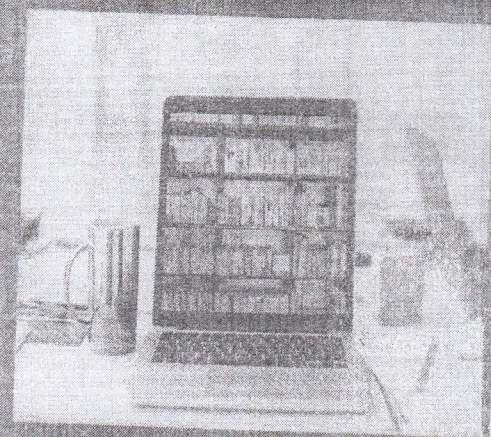
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Editor

Sharmila G. Ghante

# Managing Electronic Resources in 21<sup>st</sup> Century



*S. J. M. S. M.*

Principal  
S. J. M. S. M.  
Arts & Com. Senior College  
Khapar Tal. Akkalkuwa  
Dist. Nandurbar



## Electronic Resources

Mr.P.B. Ghante & Dr. A.N.Chikute

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### ABSTRACT

*This 21<sup>st</sup> century is known as information technology era. This is an E- technology era. Now e- resources are growing tremendously in the world and demands of the same are also increasing day by day from users. This articles highlights concept of electronic resource and a'iso focused on the need and important of E-resources.*

**Key words :** *Electronic Resources, E-Resources, E-Books, E-Journal.*

### INTRODUCTION

The process of imparting education has gone through a significant change if we look at the picture 10-20 years in recent past. Information communication technology (ICT) has influenced every domain of our lives and the onset of online courses is the path -breaker. With nearly a billion people on mobile phones and over 200 million mobiles connected to the internet, there has been a considerable rise in digital leering. The information society challenges the education system. Now the speedy, effective and global communication of information has created a new foundation for co-operation and teamwork, both nationally and internationally. The increasing role played by Information Communication Technology -ICT in the development of society. The advantage of using information and communication technology is that time consuming work routines can increasingly be performed by means of this technology and time can thus be devoted instead to communicating and informing, to the processing of information and production of knowledge.

Information and communication technology are referred to as the varied collection of technology gear and resources which are made use of to communicate. ICT is force that has changed many aspects of the way we live. Information and communication technology consist of the hardware, software, processing, transmission and presentation of information as well as related services. ICT is a requirement of the society that the individuals should posse's technological literacy.



Academic Libraries have been the integral and vital component of the education system which extends support to education, learning, training and fulfillment of objectives and mission of the educational institutions they are part of. Being the treasure trove of knowledge and gateways of information libraries have to explore innovative ways to fulfill the information and associated needs of their users especially keeping in view the paradigmatic shift in knowledge generation and management, constant invention of new web technologies, penetration of information and communication technologies, availability of open web resources and presence of information search and retrieval giant like Google.

The revolution of information and communication technology (ICT) has brought structural changes in library services. Professionally speaking it is a conglomerate of information technology, management science and communication methodology, has redefined the role and the services of library. The books are brought out in electronic format though additionally print format is supplemented in some cases. Quick need of getting information is also possible with this format. In digital library, all the collection or the major parts of the collection are in digital or electronic mode. This helps the users to use or access with a machine or device at any point of time at any places requesting the book to be issued is much easier than its print versions.

The e-resources can be used any time and at any place with most people utilizing user friendly devices like smart phones and tablets, It is reducing the size of libraries too.

**Electronic Resources Concepts :** E-Resources originated from the concept of E-publishing. Since 1985 momentous developments have taken place in electronic publishing. Then concept of document on paper is being changed to electronic document i.e. e-document or electronic resources. Electronic resource can be defined as the document resources existing in an electronic form, stored electronically and to be accessed by computer, electronic system and networks. Electronic Resources have been defined as "those material that require computer access, whether through a personal computer, mainframe or handheld mobile device. They may either be accessed remotely via the Internet or locally." Some of the most frequently encountered types are: E-Journals, E-books, Full-text (Aggregated) databases, Indexing and abstracting databases, Reference databases (biographies, dictionaries, directories, encyclopedias etc.) Numeric and statistical databases, E-images, E-audio/ visual resources".



**E-Resources :** E Resources can be classified in number of ways viz.

- By Access :- Information available on internet by free or by subscription
- By format:- Physical format in which information is stored , CD ROM, Network, Internet,
- By Contents:- *Full text, Bibliographic*

**Need of E-Resources :** Following are some points will clear that the need of IT services.

1. Explosion of information
2. Increasing interdisciplinary research
3. Increasing tendency to use e- resources of users
4. Increasing cost of publication (Print Media)
5. Speed of publication
6. Speedily accessed
7. Number of users can access at a time
8. 24x7 availability of resources
9. Facility of downloading and printing
10. Save time of user and library staff

**Advantages of E-resources :** Some advantages of e-resources are mentioned briefly below.

1. Easy to manage
2. Man Power saving
3. More Attractive
4. Easily copied and disseminated
5. Ease use , any time and any where
6. Physical space saving in use and storing.
7. Saving of paper means saving environment.
8. Speedy and multi access
9. Time saving
10. Save binding and printing cost.

## CONCLUSION

In the digital environment, E-resources are very important in the libraries. Digital resources are today's need of the academic libraries. We can conclude that the need of E-resources increasing day by day and it is necessary to attract users to use the same. The library services should be spared. Print collection also important hence libraries should



note that print collection also increased in proper quality. It is good way to reduce library budget by using e-resources.

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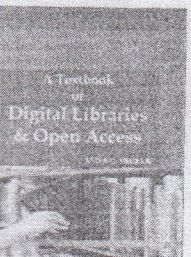
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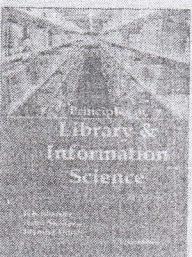
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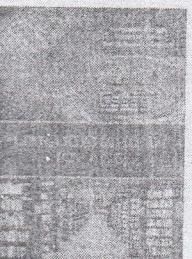
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# INTEGRATING ICT IN LIBRARY



## **E-Resources and Online Services : A Best Practices of Deur College Library**

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**Mr. Harshal Bhimsen Pawar**

*Librarian, Prof. Sambhajirao Kadam College, Deur  
Tal. Koregaon, Dist. Satara: 415524, MS, (India)*

**Dr. Pradipkumar Baburao Ghante**

*Librarian, Arts & Commerce College, Khapar  
Tal. Akkalkuwa, Dist. Nandurbar: 425419, MS, (India)*

### **ABSTRACT**

The article discusses one of the innovative and best practices of the Library and Knowledge Resource Centre of Prof. Sambhajirao Kadam College, Deur (Dist. Satara, MS) that offers 24/7/365 days' remote access to plenty of library e-resources and online services for its users at absolutely no cost. The article covers all aspects of this practice, such as significance, model, objectives, features, resources, tools, and output, etc. The blended model of best practice, comprising Library Portal, Android App and QR technology, has been developed for granting remote access to the library's e-Resources and online services. The practice has been found to be extremely beneficial not only to library users but also to the larger academic community. The article also reviews the selected studies related to best practices performed in other academic libraries in India.

**Keywords :** Library Best Practice, Remote Access, e-Resources, Online Services

### **1. INTRODUCTION**

The higher education institutes in India are now in the stage of transformation. Radical changes are taking place in higher education practices, learning<sup>\*</sup> resources, and assessment methods. Higher education bodies like UGC,



NAAC, AICTE, etc. are constantly striving to raise the standard of higher education in India. Academic libraries, especially college libraries, are the backbone of this higher education system as they provide useful learning resources as well as library and information services to their users. NAAC is an authoritative body in India that advocates library services and promotes "best practices" in college libraries that help to improve the quality of higher education.

According to the NAAC, best practice is defined as "practices which add commendable value to an institution and its various stakeholders, and are considered as reliable benchmarks or standards of quality. In order to meet the versatile demands of academics in the digital environment, NAAC has provided a specific format and set of best practices for improving the quality of services offered by college libraries. Many college libraries are providing quality services by applying different types of best practices to their users accordingly.

The Library and Knowledge Resource Centre of Prof. Sambhajirao Kadam College, Deur also applied some best practices to facilitate the user community. "24/7/365 days of Remote Access to Library e-Resources & Online Services" is one of the best practices of the Deur College Library that has been selected for presentation before NAAC. It has proven to be very useful among users.

## **2. THE SIGNIFICANCE OF THE PRACTICE**

In today's modern age, the nature of libraries is not limited to the exchange of books. There is a need to make library services and reading materials available online to users instead of visiting the library. It was seen that many academic libraries were closed to their users during the period of the COVID-19 pandemic. The classes and examinations were conducted online mode. In this crucial period, remote access to library resources and services was desperately needed to serve the students, teachers, and other academic communities.



To address the issue concern ever been/ being faced and to secure services to all, to serve its users better, the Deur College Library provided the 24/7/365 remote access to Library e-Resources and Online Services. \*

### **3. STUDIES RELATED TO BEST PRACTICES IN OTHER ACADEMIC LIBRARIES**

There are a large number of studies done in India on best practices in libraries. However, the following are the selected studies related to the best practices performed in other academic libraries:

**Sengupta (2021)** suggested possible best practices be followed in higher educational institute libraries, which can help in the NAAC's institutional assessment and accreditation process.

**Dhamdhare (2020)** compared 64 web-based services and best practices offered by the 70 top world university libraries and 39 top Indian university libraries. She found that developing countries like India should improve their library web-based services.

**Umesh Kumar (2017)** reviewed the challenges before academic libraries and identified the solutions to overcome them by applying best practices and process.

**Mohan (2017)** explored the best practices in library resources and services in academic libraries. The researcher suggested the new initiatives and practices that should be performed in the libraries.

**Ghule (2016)** described various ICT-based library services offered to the users and their impact on teaching, research, and learning processes. \*

**Aithal and Harischandra (2015)** described the 30 best practices adopted for providing the best services to library users in a management institute. The study was regarding quality enhancement of library services and exposes the



current challenges faced by the library and how to overcome them by performing best practices.

Sathe (2015) threw the light on various best practices to be followed in college libraries. The author highlighted general best practices, library extension services, NAAC best practices, and IT-based best practices like Web pages, blogs, and Wikis. Virtual library tours, etc.

Sahu (2013) explored the different best practices of social media in academic libraries. The study examined the impact of social media tools on engineering college libraries in Odisha.

Waghmode (2013) informed about best practices like library extension services, computer and internet facilities, Book Bank facilities, and information about competitive exams etc.

Vyas (2009) reviewed the best practices in academic libraries in India. The paper highlighted the best practices experienced by Indian library scientists like Dr. S.R. Ranganathan. He also explained NAAC's concern for the quality of library practices and the set of best practices in academic libraries.

Jotwani (2008) discussed the strategies for the application of best practices in the Central Library of IIT Bombay. The practices were related to resource development and management, user services, ICT-enabled services, user empowerment, information literacy, library marketing and other activities, etc.

#### **4. ABOUT THE PRACTICE: 24/7/365 DAYS OF REMOTE ACCESS TO LIBRARY E-RESOURCES AND ONLINE SERVICES**

The Library and Knowledge Resource Centre of Prof. Sambhajirao Kadam College, Deur has internally evolved a system by leveraging smart technology that assures, ensures, and offers 24/7/365 days of remote access to library resources and online services from anywhere and anytime through



optimization access to the 40+ types of e-Resources (See Appendix A), 35+ online services (See Appendix B), and different types of the e-Content platform (See Appendix G) for its users.

The system supplements and strengthens the existing offline services, resulting in optimization of library services. The practice helped to brighten the image of the college. It is a common library among the academic community and has made it possible to provide efficient services and reading resources to them quickly by online mode. The users can get remote access to the specific information resource and service in a very short time with the help of the above interfaces.

#### 4.1. Best Practice Model

The blended model (See Figure 4.1), comprising Library Web Portal, Android App, and QR Codes, is used for granting remote access to the library's e-Resources and online services.

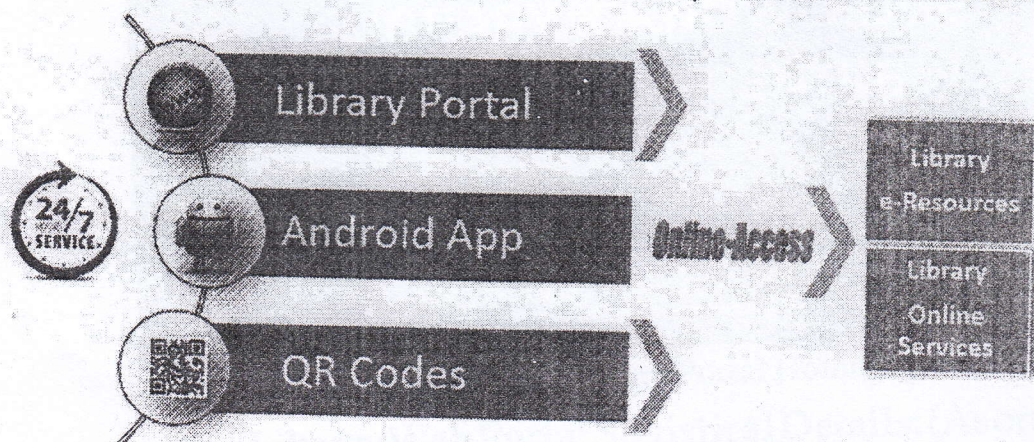


Fig. 4.1. Best Practice Model

##### 4.1.1. Library Web Portal (<https://sites.google.com/view/deurcollegelibrary>)

The library has developed a dynamic portal (See Fig. 4.1.1) for its users. The library portal consists of 83 web pages with 11500+ links and other documents that are useful to fulfil the academic, research, administrative and other routine needs of the users. If the users are at a remote place or outside of the



college campus, they simply access the portal that allows remote access to the library's e-resources and online services. The portal can be accessed through a desktop computer and smartphone. Most of the users access the portal through smartphones, as the portal is also responsive on smartphones. Since it is easy to use, the usage of the library portal is increasing day by day.

The portal appears to have been viewed more than 32500+ times (See Appendix C) and also accessed by users from foreign countries, i.e., USA, Indonesia, South Korea, Sweden, Bangladesh, Brazil, Botswana, France etc. (See Appendix D).

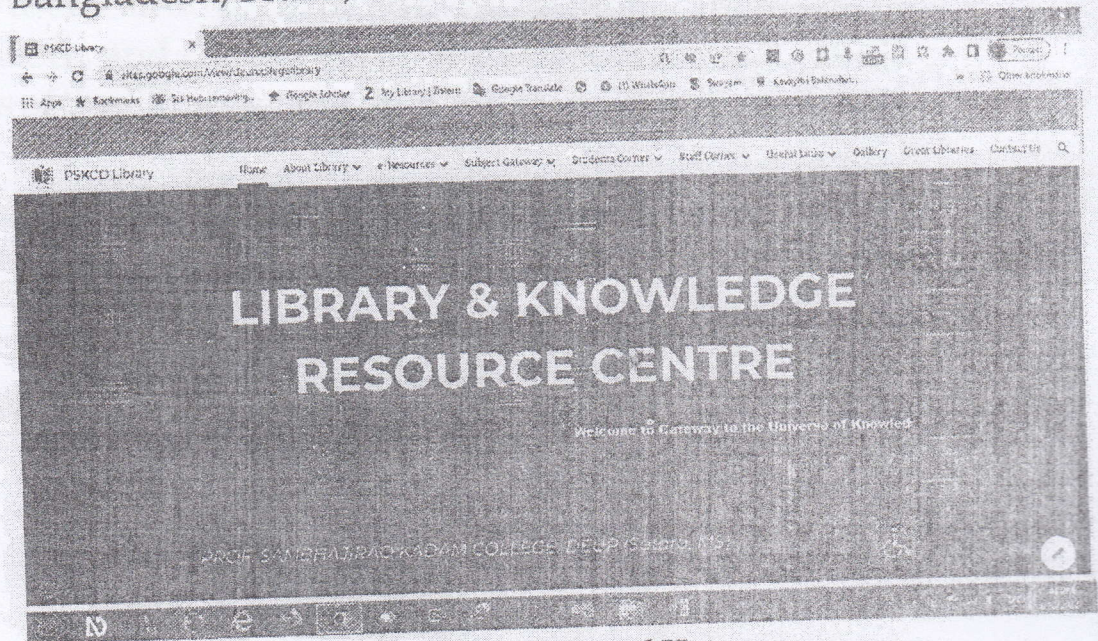


Fig. 4.1.1. Library Portal Homepage

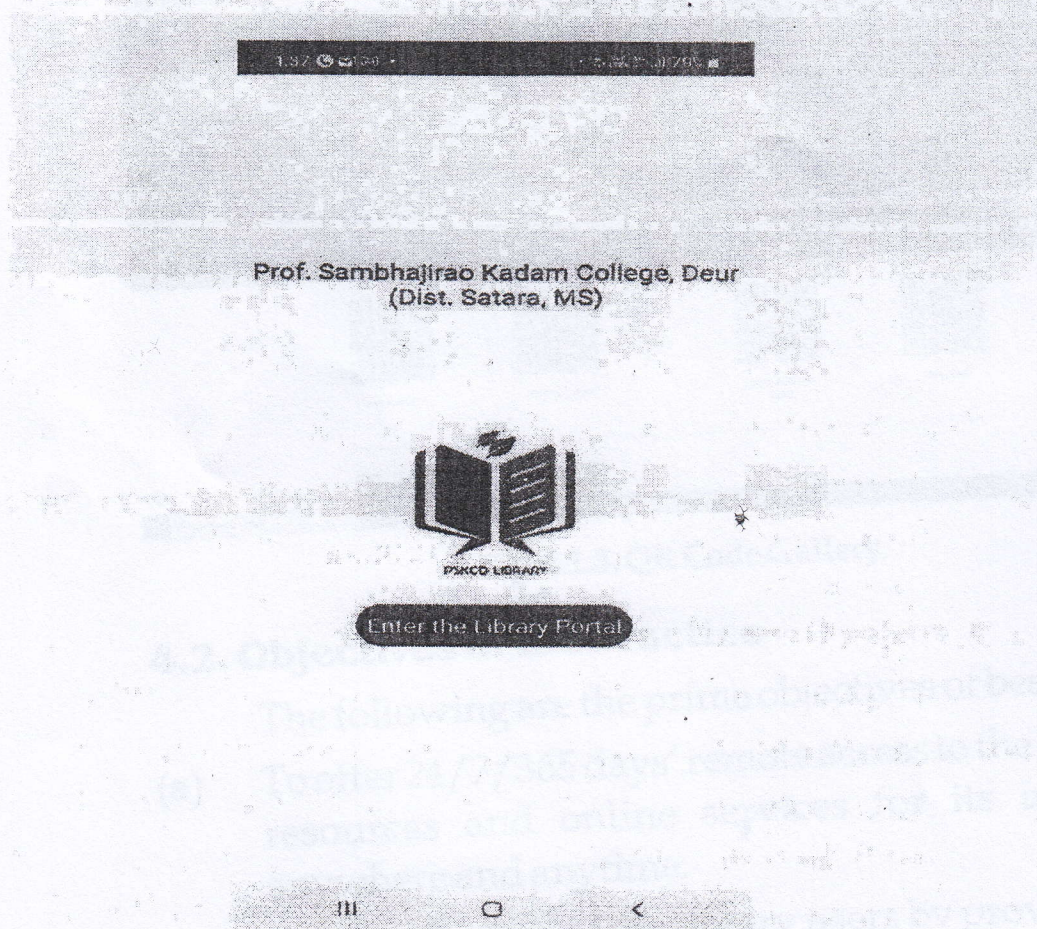
- **Library Web Portal Statistical Details: (As on April 10<sup>th</sup>, 2022)**
  - \* Site Building Platform: Google Site
  - \* Number of Webpages: 83
  - \* Number of Links and Documents associated: 11500+
  - \* Number of Users: 5696 (See Appendix C)
  - \* Number of Users from Foreign Countries: 45 (See Appendix D).



- \* Number of Page Views: 32583 (See Appendix C).
- \* Devices used to access the library portal (See Appendix E)
  - (a) Through Mobile: 83.49 %
  - (b) Through Desktop: 16.51 %

#### **4.1.2. Android App (Deur College Library)**

The smartphone is a very popular device among library users while accessing the e-resources and online services of the library. To make it more convenient, the library has developed a mobile application based on the Android operating system. Library users can download and install the application on their smartphone and can access all the e-resources and online services of the library at any time and from anywhere.



**Fig. 4.1.2. Library App Interface**



### 4.1.3 QR Codes (QR Code Gallery)

e-Resources and online services are converted into QR Codes by using QR Code generator software. These QR Codes are printed on paper and displayed on the library notice board, staff room, office, and other departments. Students and teachers scan the particular QR Code with their smartphones to access the e-resources and online services of the library. Furthermore, the accessed e-resource can be viewed, downloaded, printed, and shared. The QR Codes have also been displayed on the "QR Code Gallery" at the library portal. Usually, the users use the QR Code while they are present on the college campus.

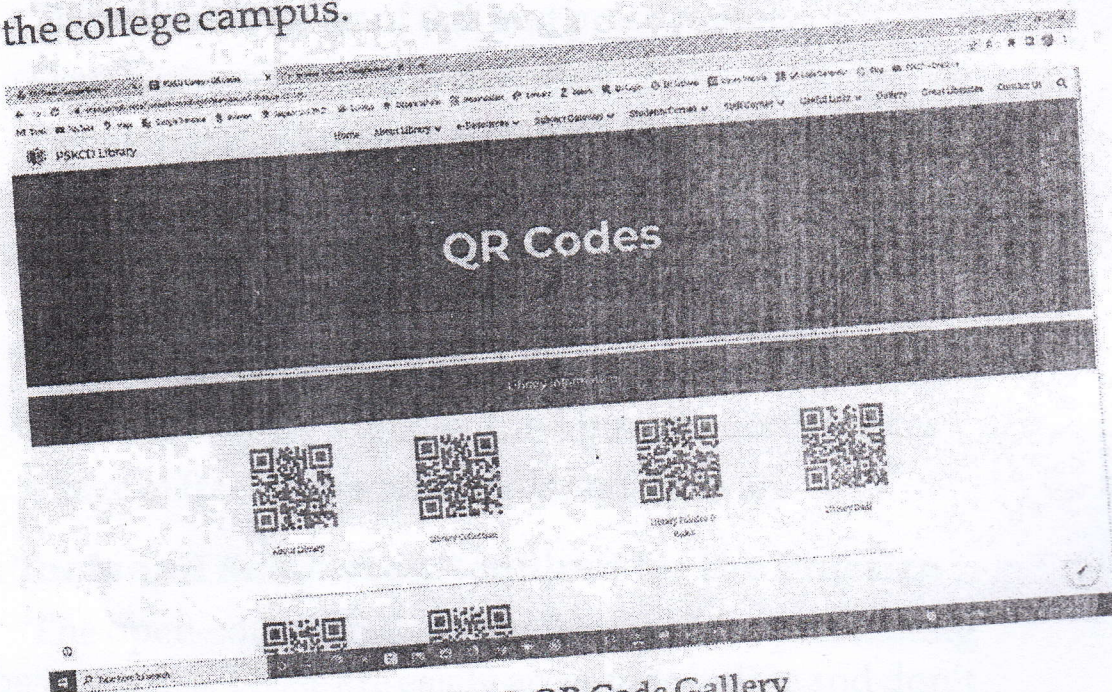


Fig. 4.1.3. QR Code Gallery

### 4.2. Objectives of the Practice

The following are the prime objectives of best practice:

- (a) To offer 24/7/365 days' remote access to the library's e-resources and online services for its users from anywhere and anytime.
- (b) To save the time of the library users by providing all e-Resources at a single online platform.
- (c) To provide a variety of e-Resources and online services



to the library users to fulfil their academic, research, administrative and routine needs.

- (d) To reduce the expenditure on printed reading materials, stationery and support for the green environment.
- (e) To save the expenditure on closets or/ furniture needed to keep library reading materials and save the library space.
- (f) To promote the use of ICT and smart technology among library users.

#### **4.3. Salient Features of the Practice**

The salient features of this best practice are:

- (a) Developing a Library Web Portal
- (b) Developing an Android-based Web Application for the Library
- (c) Developing Quick Response (QR) Codes for Library Resources
- (d) Providing remote access to online services and facilities,
- (e) Offering Library Value-Added Information Services
- (f) usage of free open source tools and software.

#### **4.4. Tools and Resources Required for the Practice**

The open-source tools/ software used for performing the best practice. These are easily accessible online and don't require paying any charges. The following tools and resources are required to perform the practice:

##### **Hardware**

1. Desktop for processing/accessing the Web Portal, Mobile App and QR Code
2. Smartphone for processing/accessing the Web Portal, Mobile App and QR Code
3. Printer for printing the QR Code



### Software and other web tools

1. Website building platforms for developing a website (e.g., *Google Sites*, *WordPress*, etc.)
2. Cloud Storage-*Google Drive*, *Dropbox*, etc.
3. Mobile Application Builder: *Thunkable*, *AppsBuilder*, *Android Studio*, etc.
4. The QR Code Generator for creating the code.
5. The QR Code Reader for decoding the code

### 4.5. Evidence of Success/ Output of the Practice

The blended model, comprising Library Portal, Android App and QR Code, is found to be very useful to library users. It offers ease of access to library e-resources and online services.

The Google Analytics Report of "Portal Audience Overview" (See Appendix C) shows that an increasing number of users visit the library portal frequently and use the library's e-Resources and online services from a remote location. Most of the users prefer smartphones while accessing the library portal, as smartphones are very popular among the younger generation of students as well as teachers.

The QR Code Scanned Statistics of "Library App" (Appendix F) reflected that the QR Code of Library App has been scanned more than 1500 times by users so far. It shows the popularity of this app among library users. The college library is now promoting and delivering most of the services through online mode with the help of the above technological platforms.

- Some of the noteworthy outputs from the above practices are as below:
  - Users get quick online access (24/7/365 days) to the library's e-Resources and online services from a remote place.
  - It saved the time and effort of the users while



searching for the resources.

- Expenses on the purchase of printed reading material were reduced.
- Cost saved for photocopying/printing of documents.
- The practice supported maintaining a green environment.
- Expenditure on book closets and furniture was saved.
- Maximum use of library services and as much space as possible.
- It reduced the burden on library staff at the circulation counter while delivering the library services.
- The binding and archiving expenditure on 'Journal Bound Volumes' were saved because of the availability of 'e-Journal Archives'.
- Users can now submit their feedback online for the library's services and facilities.
- Students and teachers can submit their requests online for purchasing new books in the library.
- The practice motivates library users to acquire new ICT skills and use the ICT tools in their routines.
- The practice strongly supports NAAC core values: *contributing to national development* and *promoting the use of technology* by providing quick online access to the treasure of e-resources related to higher education in one single user-friendly interface.
- The practice also promotes the objective of our college: to *adopt ICT-enabled learner-centric pedagogy by leveraging cutting-edge technology so as to ensure effective academic delivery* by using ICT tools effectively in the library operations.



#### 4.6. Problems encountered during practice

The library has stored all e-resources on Google cloud storage, which offers free storage up to 15 GB for each e-mail account. To upload additional documents or to use more than 15 GB of free space, the purchase of additional storage space is mandatory. To overcome this problem at an extreme level and save the charges on purchasing additional storage, the library has created a separate e-mail account for different types of e-resources and obtained 15 GB of storage space for each e-resource.

#### 5. CONCLUSION

The UGC, NAAC, AICTE and other higher educational bodies are continuously striving to maintain the quality standards and excellence in the higher education system in India. The new teaching-learning expected in National Educational Policy 2020 is backed by advanced digital technologies, online learning resources, and blended modes of acquiring knowledge. Higher education institutes will have to adapt in line with these policies. The same principle applies to academic libraries. Academic libraries also need to not only rely on traditional services but also adopt best practices with the highest standards to provide quality services to the users as per their needs. The satisfaction of library users should be the ultimate goal of each academic library, and there is no substitute for applying best practices while delivering quality library services to satisfy users.

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**APPENDICES****APPENDIX A: LIST OF E-RESOURCES HAVING 24/7/365  
REMOTE ACCESS****Library e-Resources & other documents**


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|                                |                              |
|--------------------------------|------------------------------|
| e-Resources Gateway            | N-LIST & NDL databases       |
| Shivaji University e-Resources | UGC-INFONET e-Resources      |
| e-Books                        | Audio Books                  |
| e-Journals                     | e-Journals Volume            |
| e-Journals Archives            | e-Reports                    |
| Software                       | PDF e-Content                |
| Audio Notes                    | Video Lectures               |
| Subject Notes                  | Online Tests-Quiz            |
| Question Bank                  | PPT Bank                     |
| College Activity Reports       | College e-News               |
| e-Syllabus                     | e-Question Papers            |
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| e-Newspapers                   | TV News Channels             |
| Digital Libraries/Repositories | Online Directories           |
| Patents                        | Government GRs               |
| Online Learning Resources      | Live Channels                |
| e-ShodhSindhu                  | Shodhganga Repository        |
| Shodhgangotri                  | UGC-CARE Journals            |
| MOOC Online Courses            | Swayam Online Courses        |

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## APPENDIX B: LIST OF ONLINE SERVICES HAVING 24/7/365 REMOTE ACCESS

### Library Online Services

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|   |  |
|---|--|
| Library Portal  | Android App- Library & College   |
| QR Code Gallery   | Online Public Access Catalogue (OPAC)                                    |
| Library Membership Online Application   | Library Books Online Requisition   |
| Library Users Online Feedback   | Scholar's Card Online Application  |
| Inter-Library Loan Online Application   | Online Union Catalogue of College Libraries                              |
| Information Broadcasting through social media: <i>WhatsApp, Facebook, Twitter, Telegram, YouTube and Instagram etc.</i> | <i>Research@PSKCD: Research recording facility for the Staff Members</i> |
| Digital Payments to Library   | Online Classrooms  |
| Students Corner Interface   | Staff Corner Interface   |
| e-Content Gateway   | Digital Books Fair   |
| Directory of College Librarians   | Ask a Librarian  |
| Competitive Examinations Gateway  | COVID-19 Info. Gateway   |
| Women's Corner  | Students Placement Registration  |
| Daily Life Utilities  | Facilities for Persons with Disabilities (PwDs)                          |
| Committee Meeting Online Registration   | Maintenance Work Online Intimation                                       |

### Library Value Added Online Information Services

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|                    |                  |
|--------------------|------------------|
| IT Corner          | Career Corner    |
| Employment Outlook | Prabodhan Series |
| Success Stories    | Health Plus      |

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**APPENDIX C: LIBRARY PORTAL AUDIENCE OVERVIEW**

Analytics Deur College Library Website  
All Web Site Data

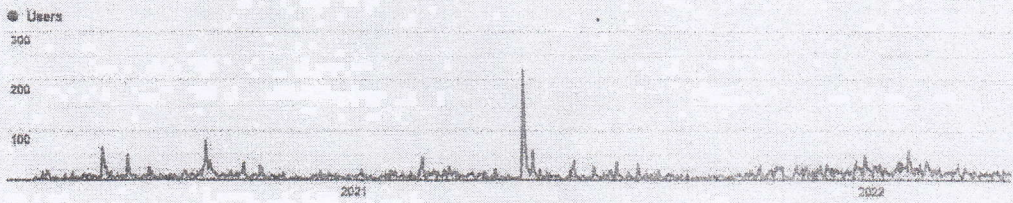
Go to report

**Audience Overview**

All Users  
100.00% Users

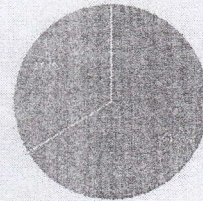
01-May-2020 - 09-Apr-2022

Overview



|  |                              |                              |
|--|------------------------------|------------------------------|
| Users<br><b>2,799</b>                      | New Users<br><b>2,897</b>    | Sessions<br><b>13,605</b>    |
| Number of Sessions per User<br><b>4.86</b> | Page Views<br><b>32,583</b>  | Pages/Session<br><b>2.39</b> |
| Avg. Session Duration<br><b>00:04:28</b>   | Bounce Rate<br><b>57.40%</b> |                              |

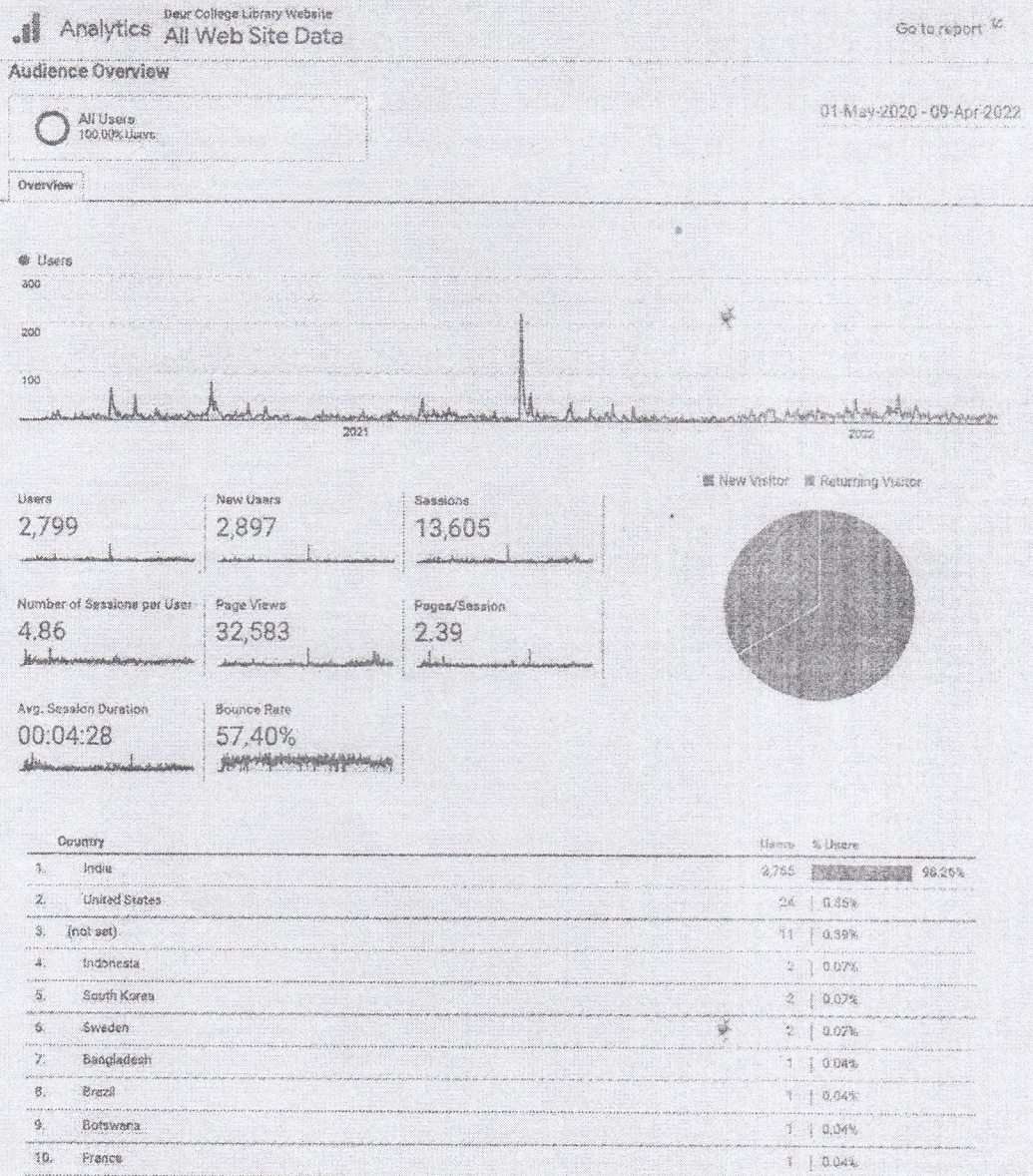
New Visitor Returning Visitor



| Language  | Users | % Users |
|-----------|-------|---------|
| 1. en-us  | 1,576 | 54.55%  |
| 2. en-gb  | 722   | 24.99%  |
| 3. en-in  | 483   | 16.72%  |
| 4. mr-in  | 44    | 1.52%   |
| 5. en     | 25    | 0.87%   |
| 6. ml     | 13    | 0.45%   |
| 7. en-au  | 11    | 0.38%   |
| 8. hi     | 4     | 0.14%   |
| 9. en-za  | 3     | 0.10%   |
| 10. hi-in | 2     | 0.07%   |



## APPENDIX D. COUNTRY-WISE ACCESS TO LIBRARY PORTAL





# APPENDIX E. DEVICE-WISE ACCESS TO LIBRARY PORTAL

Analytics Dear College Library Website  
All Web Site Data

Go to report

Overview

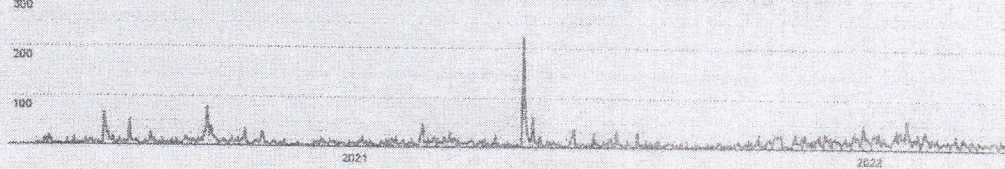
All Users  
100.00% Users

01-May-2020 - 09-Apr-2022

Explorer

Summary

Users



| Device Category | Acquisition                 |                             |                               | Behaviour                                     |  |  | Conversions                                |                   |                             |
|-----------------|-----------------------------|-----------------------------|-------------------------------|---|--|--|--|-------------------|-----------------------------|
|                 | Users                       | New Users                   | Sessions                      | bounce rate                                   | Pages/Session                            | Avg. Session Duration                            | Goal Conversion Rate                       | Goal Completions  | Goal Value                  |
|                 | 2,799<br>100.00%<br>(2,799) | 2,898<br>100.00%<br>(2,897) | 15,605<br>100.00%<br>(15,605) | 57.40%<br>Avg for View:<br>57.40%<br>(57.00%) | 2.39<br>Avg for View:<br>2.39<br>(0.00%) | 00:04:28<br>Avg for View:<br>00:04:28<br>(1.00%) | 0.00%<br>Avg for View:<br>0.00%<br>(0.00%) | 0<br>0.00%<br>(0) | \$0.00<br>0.00%<br>(\$0.00) |
| 1. mobile       | 2,342<br>(83.64%)           | 2,423<br>(83.67%)           | 5,135<br>(32.90%)             | 65.61%  | 1.89                                     | 00:02:18   | 0.00%                                      | 0<br>(0.00%)      | \$0.00<br>(0.00%)           |
| 2. desktop      | 463<br>(16.61%)             | 475<br>(16.59%)             | 5,469<br>(34.96%)             | 45.18%  | 3.14                                     | 00:07:45   | 0.00%                                      | 0<br>(0.00%)      | \$0.00<br>(0.00%)           |

Rows 1 - 2 of 2



## APPENDIX F: SCAN STATISTICS OF LIBRARY APP'S QR CODE

The image shows a browser window with the URL [the-qrcode-generator.com/mycodes/search](http://the-qrcode-generator.com/mycodes/search). The browser's address bar and navigation icons are visible. Below the browser window, there is a user profile for "Deur College Library" with the email [pskcdlibrarian@gmail.com](mailto:pskcdlibrarian@gmail.com). The profile includes options for "Sign Out", "Team", and "My QR Codes" (Manage your Dynamic QR Codes). An inset window titled "Library App" displays the scan statistics: "Library App" with "1568 Scans". Below this, a Google Drive link is shown: [drive.google.com/file/d/1uFMMU00WRfdjP...](https://drive.google.com/file/d/1uFMMU00WRfdjP...)



## APPENDIX G: DETAILS OF E-CONTENT ACCESS PLATFORMS

| Sr. Name of No the Platform     | Web Link for accessing the e-Content  | No. of e-Content<br>(As on 12.05.22) |
|---------------------------------|---|--------------------------------------|
| 1 Library Portal                | <a href="https://sites.google.com/view/deurcollegelibrary">https://sites.google.com/view/deurcollegelibrary</a>   | —                                    |
| 2 Library App                   | <a href="https://sites.google.com/view/deurcollegelibrary/about-library/library-services-facilities/library-app">https://sites.google.com/view/deurcollegelibrary/about-library/library-services-facilities/library-app</a> | —                                    |
| 3 QR Code Gallery               | <a href="https://sites.google.com/view/deurcollegelibrary/useful-links/qr-codes">https://sites.google.com/view/deurcollegelibrary/useful-links/qr-codes</a>   | —                                    |
| 4 College YouTube Channel       | <a href="https://www.youtube.com/channel/UICb-ayrhUyjdCq3fYZ9jrHnA/featured">https://www.youtube.com/channel/UICb-ayrhUyjdCq3fYZ9jrHnA/featured</a>   | 258                                  |
| 5 Online Classrooms             | <a href="https://sites.google.com/view/deurcollegelibrary/students-corner/online-classrooms">https://sites.google.com/view/deurcollegelibrary/students-corner/online-classrooms</a>   | —                                    |
| 6 Online e-Resources            | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources">https://sites.google.com/view/deurcollegelibrary/e-resources</a>   | —                                    |
| 7 Institutional Digital Library | <a href="http://192.168.0.3:8080/">http://192.168.0.3:8080/</a>   | —                                    |
| 8 e-Content Gateway             | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway</a>   | 09                                   |
| 9 PDF e-Content                 | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/pdf-e-content">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/pdf-e-content</a>                     | 137                                  |
| 10 Audio Notes                  | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/audio-notes">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/audio-notes</a>                         | 219                                  |
| 11 Video Lectures               | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/video-lectures">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/video-lectures</a>                   | 213                                  |
| 12 Subject Notes                | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/subject-notes">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/subject-notes</a>                     | 134                                  |



|  |   |     |
|--|---|-----|
| <i>E-Resources and Online Services ...</i> |   | 169 |
| 13 Online Tests-<br>Quiz                   | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/online-tests-quiz">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/online-tests-quiz</a> | 322 |
| 14 Question Bank                           | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/question-bank">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/question-bank</a>         | 84  |
| 15 PPT Bank                                | <a href="https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/ppt-bank">https://sites.google.com/view/deurcollegelibrary/e-resources/e-content-gateway/ppt-bank</a>                   | 391 |

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## THE BOOK

Every library has rich stores of primary, secondary and tertiary sources of information including books, journals, databases, manuscripts, photographs and sound recordings. Now, technologies are also providing the means to provide virtual reference, user instruction, document delivery and other services. With the advent of the internet, the society becomes increasingly wired and lacks patience in seeking the required information. It is, therefore, essential to access information efficiently and effectively and thereby ensure that information is available to all.

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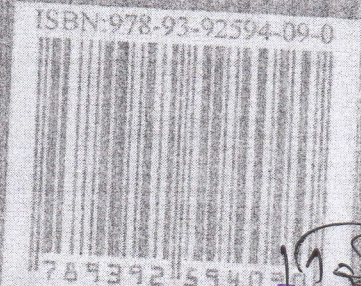
**Dr. Jitendra Kumar** (M.L.I.S., M.Phil., Ph.D.) is currently working as the Deputy Librarian of the Central Library, Fisheries Sciences University, Bapat. He has about 26 years of professional experience. He has published more than thirty-five papers in national and international journals, books and proceedings of several national and international conferences. He has also served as a member of the National Council of Educational Research and Training (NCERT), he has co-edited many books. He was instrumental in introducing the concept of college libraries of Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar. He has conducted three national level workshops on various subjects and organized programmes in the university. He got Gold Medal in his M.Phil. and Gold Medal in his Ph.D.



**Kinwar Singh** (Ph.D. in LIS) is currently working as senior assistant professor in the Department of Information Science, Chhannar Bhabha University, Varanasi. Before joining this university, he has served in various positions in Utkal University and the Institute of Technology, Bhubaneswar. He holds Ph.D. from IIT, Kharagpur, Bhubaneswar, Odisha, and his Master's degree in Library Science from the University of Delhi. He has been working in non-teaching and non-teaching staff in various capacities for more than fifty years. Two research scholars have completed their Ph.D. under his supervision, and six more are pursuing their Ph.D. He has two books, forty-two research papers in national and international journals, and twenty-two book chapters to his credit. His research interests are in library automation, information technology, digital libraries, scientometrics, bibliometrics, and other related areas. He is a member of the I.A., I.A.L.I.S., M.A.L.A. and S.A.L.I.S.

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