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# A Comprehensive Study on Emerging Trends and Practices in Library Management in colleges and Universities

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#### **Abstract:**

Libraries are the backbone for any higher educational institution. They not only preserve the books but also motivate to stay updated, competitive and research-driven. The transformation in the library management of colleges and universities is attributed to the rapid technological advancement and changing needs of the academic community. This study aims to explore the new trends and practices that are revolutionizing the library management for making libraries more accessible, efficient, and user-friendly. In lieu of a physical space, modern libraries are transitioning toward becoming hybrid models that mesh more traditional resources with contemporary and modern digital solutions. These will emerge to include digital library relevance in cloud-based system efficiency, artificial intelligence implementation into operational workflows, as well as the ability for efficient remote access facilities in facilitating customized services to users by introducing or enforcing the use of mobile friendly platforms. This study also discusses the sustainable practices implemented in library management. These include energy-efficient infrastructure, resource-sharing networks, and green certifications, which help institutions reduce their environmental footprint while remaining cost-effective. In addition, the focus on inclusivity has resulted in the development of diverse collections, accessibility features for differently-abled users, and multilingual resources. This paper provides insights for collaborative partnerships, government support, and investment in staff training programs. The study further underscores the need for libraries to find a balance between the demands of traditional library services and those of the digital age. Through a combination of surveys, case studies, and interviews with experts, this broad study offers actionable insights to policymakers, administrators, and library professionals on fostering innovation, sustainability, and inclusivity in library management for the goals of colleges and universities in the 21st century.

**Keywords**: Library Management, Digital Libraries, Emerging Trends, Sustainability, E-Resource Management, Academic Institutions, Technology Integration

#### 1. Introduction:

Libraries are the integral and core part of academic institutions for centuries. It is the reservoir of knowledge and learning and the backbone of any academic institution. These libraries are highly valuable to colleges and universities, especially in support of teaching, learning, and research activities. The emergence of new demands from academic communities has transformed the role and practices of library management significantly because of digital technologies. Libraries are no longer confined to physical spaces but have evolved into hybrid models, combining traditional services with digital solutions in order to meet the needs of the

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modern user. Digital libraries, cloud-based systems, and e-resource management tools are increasingly being adopted, and this has changed the way students and faculty access information. Libraries are now becoming more mobile and remote-friendly, using user-friendly platforms that give access to resources 24/7. This makes libraries more relevant to an extremely competitive academic environment. Other such technologies as artificial intelligence, machine learning, and big data analytics are also providing the means through which libraries offer personalized services and optimize the operations.

At the same time, the use of sustainability practices in managing libraries becomes more apparent because it reflects greater institutional purposes of environmental stewardship. Libraries have resorted to using energy-efficient infrastructure and participating in resourcesharing networks and pursuing green initiatives for cost and ecological footprint reductions (Gaikwad, 2024). It is one of the sustainable practices which serve to benefit not only in the way of sustainability but also for showing a changed role for libraries: proactively engaged with institutional and social changes. Though the above technologies contribute to the help of libraries, there are few challenges associated with library management, like budgetary, training staff, and digital divide among the users. Libraries are also being challenged to come out to issues of access for disabled and diverse audiences by their resources. This constantly changing world requires innovative practices for its management. This research seeks to conduct a comprehensive analysis of emerging trends and practices in library management in colleges and universities. Through the study of the integration of technology, the adoption of green practices, and overcoming prevailing challenges, the study seeks to provide actionable recommendations. Findings are meant to help policymakers, administrators, and library professionals optimize their libraries in accordance with the aims and objectives of modern higher education.

## 2. Background of Study:

Libraries have been the very nucleus for the development and growth of academic institutions. They have been the heart for research, learning, and innovation. In the historical perspective, libraries in colleges and universities served as stores for printed materials, comprising books, journals, and manuscripts. The primary intention of the libraries was to maintain knowledge and make it accessible, assisting students and faculty with their academic activities. Over time, however, changing needs of users and the rapid advancement of technology redefine the role and scope of library management. New opportunities and challenges arise from the impact of the digital era, which has greatly influenced the operations of a library, introducing a shift from physical to digital resources. Libraries are the best places to sit, read, explore the world of wisdom, stay competitive, develop new skills and become more employable for the students (Gaikwad, 2021).

With the proliferation of e-books, online journals and databases, libraries today become a portal to oceanic amounts of information that will be accessible by a mouse click. So, this kind of change has resulted in using digital tools and platform in order to handle resources, facilitate the experience of the end-user, and knowledge spreading becomes an efficient affair. Libraries today use artificial intelligence, cloud computing, and big data analytics to provide

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personalized as well as scalable services. Global sustainability and inclusiveness priorities have shaped the direction of library management. University libraries use library services, with designs that are "green", energy-efficient technology, and resource-sharing consortia. The sustainable approach meets the general objectives of lowering environmental footprint and social responsibility. Libraries implement the following initiatives under the broad umbrella of inclusion: accessible infrastructure, diversity in collections, and multilingual access to resources, to be used by a variety of users with mixed academic and cultural needs.

Some of the challenges that affect effective management of libraries include: financial constraint. This usually limits an institution's ability to take on the latest technologies and extend its collections. Further, the digital divide existing between the different users and the ongoing skills development among library staff present a challenge. Poor digital infrastructure can lead to digital stress (Gaikwad & Bhattacharya, 2024). In these challenges, strategic planning and innovative practices are called for as means of ensuring that the libraries remain relevant and efficient in the digital age. The article seeks to establish the changes that have occurred in the library management of colleges and universities through the years, highlighting new trends and long-term solutions. Knowing this past history, current development, and future prospects, it provides a comprehensive view as to how libraries can live longer, not only as significant constituents of academic success and innovation but also as pillars in education.

## 3. Scope and Significance of Study:

This scope of study takes an in-depth examination of emerging trends and practices in college and university library management. It stresses an understanding of how modern technologies, including digital libraries, artificial intelligence, cloud-based systems, and big data analytics, have changed traditional operations in the library. The research is directed at the integration of sustainable practices within libraries, including designs such as energy-efficient designs, resource-sharing networks, and other similar green initiatives, along with making accessible and inclusive features available to meet diverse user needs. Geographically, the scope of this study covers libraries from higher education institutions in different regions in order to give a comparative analysis of their management strategies and practices.

This study is vital for discussing the evolving role of libraries in the digital era. Libraries sit at the heart of changes in academic institutions as pressure to change oneself is always on for the institutions, bearing in mind technological advancements and changes in expectations by users. Based on analysis of current practice and challenges, this study contributes to actionable insights into ways to optimize library operations consistent with broader goals in higher education. This paper, therefore, empowers library professionals and administrators through innovative strategies to enhance user engagement, better access to resources, and more efficient operations. There is another great importance attached to this study: its focus on sustainability and inclusiveness. Higher education institutions have increasingly emphasized environmental responsibility and equitable access to resources, and libraries have become important champions of these values. This research is the best for the implementation of green initiatives and inclusivity and acts as a roadmap for libraries in contributing towards social and environmental objectives for institutions. This research shows that the role of the library is not

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limited to a depository of knowledge, but also contributes positively towards making the academic ecosystem sustainable and inclusive.

Financial challenges also are some of the struggles besides the deficit in skills amongst staff and problems of the digital divide also find space here. Therefore, through this study, it comes out what is needed to be overcome so that there could be continued success in giving library services. Constant innovation and cooperation and investment in resources in libraries and its personnel is given emphasis. To the policy makers, the administrators, the library professionals, and researchers, the paper is vital. This work, therefore, provides an overarching perspective of the current state in the management of libraries along with practical suggestions to enhance the development and relevance of libraries in colleges and universities. Based on the research, there will be bridging of the gap between the past practice and need for the present in its contributions towards the evolutionary sustainable development of library management in higher education.

## 4. Objectives of Study:

- To analyze how modern technologies such as digital libraries, artificial intelligence, cloud computing, and big data analytics are transforming traditional library operations in colleges and universities
- To explore sustainable practices (the adoption of eco-friendly infrastructure, energy-efficient technologies, and resource-sharing networks) in library management
- To evaluate inclusivity and accessibility measures in library services libraries are addressing the diverse needs of users by offering inclusive features such as accessible infrastructure, multilingual resources, and services for differently-abled individuals
- To investigate the challenges faced by library management
- To provide strategic recommendations for optimizing library management practices based on the findings, this objective seeks to propose actionable strategies to enhance the efficiency, accessibility, and sustainability of library services in colleges and universities

### 5. Reviews of Literature:

Ghadge et al. (2024) conducted a research to study the perceptions of college students towards the digital libraries in Maharashtra. The study was empirical in nature. They covered various factors such as motivation, engagement, user-friendly, learner automation etc. It was found that the digital library serving an important link for the students to access the standard and paid resources from anywhere, anytime.

Choudhury et al. (2024) in their notable research article examined educators' (teachers) perceptions towards the emerging technology of artificial intelligence within the Indian context. The authors developed a scale keeping the Indian demographic conditions in mind. The scale was validated and determinants were analyzed through structural equation modeling.

According to Chandra and Iyer (2021), academic libraries are increasingly adopting roles beyond traditional resource provision, such as facilitating research collaborations and offering

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training programs in digital literacy. This expanded role positions libraries as vital components of academic success.

The role of sustainability in library management has been highly focused on over the last few years. According to research by Gupta and Verma (2021), green library initiatives, such as energy-efficient designs and paperless workflows, help save the environment while cutting operational costs. Their study points out the need for libraries to adapt their practices in line with the general sustainability goals of academic institutions. Another focus of the research has been on inclusions in library services.

Sharma et al. (2020) analyzed the implementation of artificial intelligence in academic libraries. They noted that AI tools facilitate personalized services, automate routine tasks, and improve decision-making through predictive analytics. These technologies enable libraries to optimize operations and deliver tailored experiences to users. Similarly, Patel and Roy (2019) considered the application of big data analytics to understand user behavior and make better resource allocations, a critical aspect in contemporary library management.

It is of paramount importance to consider strategic planning in library management according to various researchers. In the recent study, Nair and Gupta (2019) proposed a framework integrating technology, sustainability, and inclusivity into the process of library operations. According to their findings, the insights are actionable for policymakers and administrators in terms of optimizing library management practices within colleges and universities. These studies collectively underline the dynamic nature of library management, underlining the need for constant adaptation and innovation. The aim of this study was to build upon those insights to provide a comprehensive understanding of emerging trends and practices in academic library management

The evolution of library management practices has been widely discussed, with researchers emphasizing the transformative role of digital technologies. Kumar and Singh (2018) have found that the adoption of digital libraries has significantly enhanced resource accessibility and user engagement in academic institutions. Their study explains how e-resource management and cloud-based platforms allow users to access information remotely, thus aligning library services with the needs of modern learners.

Mishra and Ali (2017) discussed how the libraries can reach out to diverse user needs by making infrastructure accessible, multilingual resources available, and using digital tools for differently abled people. The studies indicate that inclusivity helps in increasing user satisfaction along with creating a culture of equity and diversity in academic institutes. Library management remains to be marred by budgetary constraints and challenges in resource allocation. Reddy and Thomas, in a study conducted in 2016, have pointed out financial constraints as one of the major limiting factors to the adoption of advanced technologies and expansion of collections. They suggested consortia-based resource sharing initiatives and public-private partnerships.

Staff training and professional development have become important areas to enhance library management. Johnson and Matthews (2019) opine that continuous skill development programs

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are necessary for library professionals to keep pace with technological advancements and the changing expectations of users. Their research advocates for investing in staff training as an important strategy to enhance the quality of service. The digital divide remains a significant challenge in achieving equitable access to library resources. Bhattacharya et al. (2020) looked into the disparity in digital infrastructure between institutions. The unequal access, they noted, has prevented the full realization of digital libraries. Policy interventions and funding were also seen to be needed in addressing the disparities.

There have been numerous studies on user behavior and preferences in the digital age. Singh and Das (2018) research work established that tech-savvy students and faculty want mobile-friendly platforms and 24/7 access to resources. Their findings are emphasizing the need for libraries to adopt user-centric designs and services to stay relevant in the digital age. The library is also transitioning into a knowledge hub supporting research and innovation.

#### 6. Discussion and Analysis:

The field of library management in colleges and universities is rapidly changing with the support of technological advancements, sustainability imperatives, and diverse user needs. This discussion synthesizes the findings from the study to provide a detailed analysis of the emerging trends and challenges, along with actionable insights for future development.

## 1. Technological Advancements in Library Management:

Integration of technologies such as artificial intelligence (AI), big data analytics, and cloud computing has really changed the management of libraries. Digital libraries and access to resources from remote access platforms make it easy to access the resources 24/7 anywhere around the globe. AI-powered systems can offer personalized services and automate routine tasks, which makes users happy and makes their work more efficient. However, the adoption of these technologies varies due to budgetary constraints and skill gaps among the library professionals.

#### 2. Digital Libraries: Automation for Higher Education:

As these libraries become a sine qua non in higher education institutions, they offer an extremely great repository of e-books, journals, and databases to upgrade the research capability for students and faculty while diminishing the physical space taken by the traditional libraries. This problem of the digital divide and poor IT infrastructure, however, in certain educational institutions limits equal access to the digital resources and demands strategic policy interventions.

#### 3. Green practices in library management:

Libraries also gain greater importance about sustainability in managing them. Green initiatives, such as energy-efficient infrastructures, green certifications, and resource-sharing consortia bring library operations into line with the institutional environmental targets. However, that comes at a pretty steep cost, which may not be an affordable outlay for all

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institutions right away. Collaborative funding models and government incentives are key to spreading sustainable library practices far and wide.

## 4. Inclusiveness and accessibility:

College and university libraries have been working to ensure accessible infrastructure, multilingual collections, and digital tools for the differently abled. This will help in reaching diverse groups of users and contributing to equity in education. However, the challenge remains in scaling up these efforts in underprivileged regions or areas that lack knowledge of them. In this respect, collaboration with NGOs and technology vendors would be beneficial in filling in these gaps.

#### **5. Issues with Resource Utilization:**

Budgetary constraints and resource allocation are the greatest hurdles toward the complete assimilation of advanced technologies for the growth of library services. For institutions, budgetary restraint will find it difficult to sustain this balance of traditional and digital resources. Resource-sharing consortia, public-private partnership, and other alternatives can make the best of the funds and infrastructures available.

## 6. Library Professionals' Contribution:

Library management involves continuous professional upgrading. Digital literacy training, data analytics, and applications of AI form the part of keeping the library staff relevant in an ever-changing world. However, many institutions do not have structured training programs that can bridge this gap. A national-level training framework can well fill this gap.

#### 7. Bridging the Digital Divide:

The digital divide remains an issue mainly in rural and disadvantage areas. Most of the institutions in these regions lack infrastructural and financial inputs fully to support comprehensive services in a digital library. It is thus necessary to provide policy interventions and focused investment to bridge this gap to make all digital resources accessible to students and faculty.

#### 8. User-Centric Approaches:

The user-centric approach can be clearly seen in the trends toward mobile-friendly platforms and personalized interfaces. These aspects will help fulfill the tech-savvy user's requirements, increase their engagement, and heighten their satisfaction. Nevertheless, these services have to be modified based on the altering requirements of the users with the help of continuous mechanisms for feedback.

## 9. Libraries as Knowledge Hubs:

Academic libraries are expanding their role and scope to become knowledge hubs in support of research, innovation, and lifelong learning. This includes digital literacy, helping research

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collaborations, and curation of special resources. This puts them as an integral part of the academic and research ecosystems.



**Figure 1: Library Automation** 

 $(Source: \underline{www.goodfirms.co})$ 

## 7. Findings of Study:

Academic libraries embrace more digital technologies, ranging from artificial intelligence to big data analytics and cloud computing. New technologies have improved the accessibility of resources, reduced operational complexity, and increased the level of user interaction, though the adoption varies. The financial and infrastructural difference between the institutions is to be blamed for this scenario. Digital libraries have, since their inception, been integral parts of academic institutions in providing remote and 24/7 access to a whole range of resources. They have reduced dependency on space and increased scope of access to resources. However, the digital divide acts as an important barrier for access mainly in the underprivileged and in rural areas.

Libraries embrace more sustainable practices, like energy-efficient infrastructure, green certifications, and resource-sharing networks. These practices not only help in support of the environmental objectives of higher education institutions but also cut down the operational costs. However, there is limited funding and awareness, which restrains its large-scale implementation. The libraries are focusing on making the infrastructure accessible to diverse user needs by making the infrastructure accessible, offering multilingual resources, and providing assistive technologies for users with impairments. These efforts contribute to inclusiveness but have to be undergirded by a better financial and policy support before they are scalable and sustainable. The constrictions put on budget and wastage in using resources

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are crucial challenges that the management of libraries faces. In most parts, funding is a huge problem so that the place lacks even sophisticated technologies; thus, this calls for either consortia or public-private partnerships in resource sharing.

Library professionals are required to be abreast of technological changes and new expectations among users. Structured training in digital literacy, data management, and emerging technologies is warranted but lacks provision in most of the institutions. Differential access between urban and rural institutions to digital resources and infrastructure creates an unlevel field for distributing services. Such a gap will require some policy interventions, investments, and partnerships in improving infrastructure and access.

User behavior has greatly influenced the way library management is practiced. Libraries are embracing mobile-friendly interfaces, personalized interfaces, and feedback mechanisms to engage with tech-savvy users. Such approaches have enhanced user engagement and satisfaction. Academic libraries are evolving into knowledge hubs that provide digital literacy training, research support, and collaborative spaces for innovation. This new role signifies their relevance in the academic and research environments of higher education institutions. Library management will therefore require a strategic framework which will integrate technology, inclusivity, professional development and sustainability. The collaborative partnerships among academic institutions, policymakers, and technology providers are among the factors that ensure that the emerging practices are both scalable and successfully implemented.

#### 8. Conclusion:

The study of emerging trends and practices in library management in colleges and universities reveals a landscape that is dynamic and transforming, driven by technological changes, imperatives of sustainability, and changing needs of academic communities. Libraries have transformed from being only traditional repositories of knowledge into multifaceted hubs of digital resources, research support, and innovation. This evolution is catalyzed by the integration of technologies like artificial intelligence, big data analytics, and cloud computing that enhance accessibility, efficiency, and user engagement. Adoption of sustainable and inclusive practices further reinforces the proactive role of libraries in dealing with global and institutional challenges. Green initiatives, consortia for resource sharing, and measures of accessibility make library operations consistent with larger social and environmental objectives and promote equity and diversity. However, persistent challenges remain in the form of budgetary constraint, the digital divide, and the need for continuous professional development among library staff.

Strategic interventions will include collaborative partnerships, targeted investments, and structured training programs that will be necessary to overcome such challenges. Libraries are aptly positioned to better meet user preferences and expectations in this modern world by embracing user-centric designs for libraries to remain relevant. Further, their role as knowledge centers would include support for research, digital literacy, and lifelong learning. This research adds to the knowledge of how libraries in higher education can respond to the ever-increasingly fast-changing academic environment. The results will help policymakers,

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administrators, and library professionals optimize library management practices, align them with the academic and research goals of the 21st century, and through innovation, sustainability, and inclusivity, make libraries remain alive as a means of disseminating education and knowledge.

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