



SUSTAINABLE DEVELOPMENT IN NURSING LIBRARY: A CASE STUDY OF FOCUS INSTITUTE OF MEDICAL SCIENCE, MALAKAND

Israrullah Shah ¹, Sakina Noor ²

DOI: <https://doi.org/10.63544/ijss.v5i3.293>

Affiliations:

¹ Librarian,
Focus Institute of Medical Science
Malakand, Khyber Pakhtunkhwa,
Pakistan.
Email: israrullahshah@scps.edu.pk

² MPhil LIS, Librarian,
Govt Degree College Sardar Hassan
Musa Gulstan, Quetta
Email: sakinanoor786@gmail.com

Corresponding Author's Email:

¹ israrullahshah@scps.edu.pk

Copyright:

Author/s

License:



Article History:

Received: 14.04.2026
Accepted: 04.05.2026
Published: 17.05.2026

Abstract

This qualitative study explores nursing college library development, focusing on collection development, information management, technology integration, and collaboration. It examines the library's role in supporting student success and evolving nursing knowledge. The study also examines the library's ability to equip students with essential skills for information retrieval and evaluation. The study found positive user observations and suggests improvements in information accessibility and user-friendliness. To enhance these outcomes, the library should refine digital collections, improve physical accessibility, create flexible study spaces, and offer various user services. Findings from the FIMS College of Nursing case study reveal critical challenges, including outdated materials, limited digital access, insufficient computers, and restrictive library hours that hinder nursing students' academic progress. Thematic analysis of participant responses underscores the need for collaborative efforts among librarians, faculty, and external organizations (e.g., UNESCO) to promote open-access policies and resource sharing. Furthermore, a sustainable library framework must balance environmental considerations (green practices), financial stability (digital investments), and technological integration (AI-based search systems). Adopting adaptable models, such as HEC Access and ALA guidelines, is essential for fostering resilient, future-ready nursing libraries that support evidence-based practice and lifelong learning.

Keywords: Nursing College, Library Development, Pakistan, Library Management.

1. Introduction

Nursing libraries serve as vital hubs of knowledge, supporting the multifaceted needs of nursing students, faculty, and practitioners. They provide access to a diverse range of information resources, foster research, and cultivate a culture of evidence-based practice. The development of a successful nursing library is a multifaceted endeavour that requires careful planning, strategic decision-making, and a deep understanding of the evolving information landscape. This article investigates into the key aspects of nursing library development, exploring the foundational principles, critical considerations, and best practices that guide the creation and ongoing evolution of these essential institutions.

In the field of nursing and allied health sciences, libraries play a particularly critical role, providing access to evidence-based resources, scholarly literature, and tools essential for developing clinical and theoretical expertise. However, the modern nursing library must go beyond traditional bookshelves to ignite lifelong learning and professional success. By embracing digital transformation, fostering critical thinking, and nurturing research capabilities, nursing libraries can become dynamic environments that contribute to the holistic development of nursing professionals.



The study explores how nursing libraries in Pakistan, particularly in institutes offering nursing and allied health sciences programs, contribute to the lifelong success of their users. It seeks to identify strategies libraries employ to adapt sustainable development nursing college library and to the evolving needs of the nursing profession and examines the challenges they face in creating impactful learning environments.

Scope and Purpose

Before boarding on the development journey, it is crucial to clearly define the scope and purpose of the nursing library. This involves a thorough assessment of the target audience and their unique information needs.

Collection Development: Building a Comprehensive and Relevant Collection

The library's core is its collection, which requires strategic resource selection and acquisition that aligns with user needs and the library's mission.

Sustainable Selection Criteria

A successful nursing college library relies on carefully selecting resources that support the curriculum, are accessible, and meet user needs. The collection should cover core nursing disciplines, specialized areas, and latest research findings. It should be user-friendly, accessible for all, and address cultural understanding and health differences. Budgetary constraints must be considered, and collaboration with faculty, staff, and students is crucial to ensure the collection aligns with their needs.

Sustainable Collection Maintenance

Collection maintenance is crucial for nursing libraries to ensure their resources remain relevant, accessible, and in good condition. Clearing is a process that removes outdated or irrelevant materials, while conservation involves proper shelving, cleaning, and repair of damaged materials. Collection evaluation helps identify areas for improvement and informs strategic acquisitions. Technology plays a vital role in modern collection maintenance, with library management systems and digital initiatives enhancing accessibility. Collaboration with other libraries and stakeholders is essential for successful collection maintenance, ensuring the collection meets evolving nursing community needs.

Based Organization for Improved Library Management

The author proposes a new approach to nursing college libraries, prioritizing ease of access for patrons and librarians. This involves organizing library resources by subject, simplifying maintenance tasks, and aligning with the nursing curriculum. To enhance the library's visual appeal, the author suggests using subject-specific colours and colour-coded labels. This system improves efficiency, user experience, and learning, fostering a more inviting environment for nursing students. Implementing these suggestions will significantly improve the library's functionality and user experience.

Space Planning and Design

The library's design plays a crucial role in creating a welcoming and productive environment for users. It should prioritize accessibility for all users, including those with disabilities, and incorporate universal design principles. The layout should be user-friendly and functional, with distinct zones for various activities. Robust technological integration is essential, with high-speed Wi-Fi, computer workstations, multimedia facilities, and charging stations strategically placed. A comfortable and aesthetically pleasing environment is also essential, with natural light and ventilation, diverse seating options, designated quiet study areas, and collaborative spaces. The library's collection should be integrated, with well-organized shelving and storage solutions. Staff comfort is also crucial, with comfortable workstations and a dedicated staff room. By involving staff, faculty, and students in the design process, nursing colleges can create libraries that are vibrant hubs of learning, research, and intellectual growth.

Technology Integration

Modern libraries must integrate technology effectively through a technology plan, appropriate technology implementation, user training, regular updates, and robust cybersecurity measures. Regular evaluation and support ensure users are well-equipped to utilize library technologies, while maintaining industry standards and user privacy.

Staffing and Training

High-quality library services require skilled staff, including qualified librarians, ongoing professional development, a supportive team, and cross-training staff in various library operations, such as reference



services, collection development, and technology support.

Outreach and User Education

Library outreach and user education are essential for promoting services and ensuring users can effectively utilize resources. Key strategies include creating user-friendly guides, offering orientations and workshops, collaborating with faculty and instructors, promoting library services through various channels, and providing personalized reference services to assist users with research questions.

Evaluation and Assessment

Regular evaluation and assessment of nursing college libraries are crucial for their effectiveness and relevance. Key methods include user surveys, usage statistics, collection evaluation, program evaluation, and benchmarking to assess library performance.

Future Trends and Challenges

Nursing college libraries face evolving trends and challenges, including increased access to digital resources, increasing data literacy and research skills, the impact of AI and machine learning on library services, and the need for continuous learning and adaptation to stay updated with emerging trends and technologies.

Research Objectives

- To examine the present status of sustainable development in FIMS college of nursing library.
- To identify the challenges faced by library patterns in FIMS college of nursing library.
- To explore the collaborative efforts for sustainable library development.
- To suggest library development for FIMS college of nursing.

2. Literature review

In (2024) the study “Perspectives of Information Literacy and Awareness among Students in Higher Education” by Sushil Kumar Singh, Prof. Hemant Sharma. The study highlights the importance of information literacy in higher education, highlighting its integration into curricula through library orientations, workshops, and online resources.

In (2024) the study conducted “Unveiling the Evolving Dynamics: Exploring the Transformative Relationship between Libraries and Users” by Sanjay Kumar. The study explores the transformative relationship between libraries and users, highlighting their historical role as knowledge repositories and technological advancements. It highlights user needs, technology impact, and social media engagement, suggesting strategies for library adaptation.

In (2022) the study “Checklist Method for Evaluation of Library Collection” by Dian Hafsera et al. The study found that only 37.2% of required teaching materials for a Diploma in Library Science program at UIN Imam Bonjol Padang were available, highlighting the need for effective collection development policies. In (2024) the study was conducted “Managing the Heart of Knowledge: Strategies for Library Administration and Management” by Yadram Singh. Yadram Singh's study emphasizes strategic planning, resource allocation, technological integration, community engagement, well-structured organization, skilled workforce, and robust financial management in library administration, using a mixed-methods approach.

In (2020) “Challenges and Opportunities in the Management of Collection Development Policy in Libraries” by Hussaini Ali. Hussaini Ali's study highlights challenges in library collection development policies, emphasizing written policies, user needs assessment, stakeholder collaboration, adequate funding, staff training, and proactive measures.

In (2019) the study “Collections and Collection Development Exercise in Libraries: A Perspective in View” by Stanley Efe Okolo et al. The study emphasizes the significance of collection development in libraries, addressing challenges like budget constraints, staffing issues, and technological advancements, and advocating for effective policy implementation.

In (2018) study “Collection Development Policies of Electronic Resources in University Libraries in Southeast Nigeria” by Flora Ifeoma Okogwu. Study on electronic resource collection development policies in Southeast Nigerian university libraries found traditional, unwritten policies mainly used. The findings suggest formal written policies, regular evaluations, and user feedback for effective support.

In (2016) “Assessment of Collection Development Practices: The Case of Valley View University



Library, Ghana” By Samuel Ameyaw, and Florence Entsua- Mensah. The study assesses collection development practices at Valley View University Library, Ghana, identifying challenges like inadequate funding, limited space, and unreliable power supply, suggesting regular policy updates and innovative strategies.

3. Methodology

The research methodology approved for the study was qualitative. Marking to explore detailed understandings into the topic. An interview guide was carefully established with the help of professional librarians and experts to confirm that the questions were related and complete. The collected data was analysed using thematic analysis, a method that includes finding, shaping, and understanding designs or themes within the data. The findings were signified through charts to deliver a stronger understanding of the results and highlight basic developments successfully.

Participant Selection

The total number of members in the interviews was 15 students from the FIMS College of Nursing, Malakand. All participants were honest and committed students in their 6th semester. All the students are gathering to library and give them an interview guide with explanation and understanding of each part of interview guide. Separately and independently all students submitted their interviewed guide in the library to gather their viewpoints and understandings.

Coding Approach

In the research was used a deductive coding approach because it utilizes a predefined framework of a nursing library to the specific context. Therefore, method help a structured analysis in a research data on established theories or concepts. Also, the research aims to explaining a new idea of managing nursing college library with given framework and ensuring a systematic exploration of the study.

Age, gender and Education

The participants ware all students age of 22 to 24 of FIMS College of nursing. All participants ware 6th semester students which are senior batch of FIMS College of nursing.

Participants naming code

FIMS College of nursing and health science 6th semester student coded as: HU, HZ, SK1, SK2, KK, MM, AK1, AK2, JA, BA, NA, IU, MW, MK, and FA.

4. Result and Key Finding

Table 1

Participant’s Profile

Participant	Code	Age	Address
P1	HU	23	Dir upper
P2	HZ	22	Swat
P3	SK1	24	Malakand
P4	SK2	22	Swat
P5	KK	22	Swat
P6	MM	23	Malakand
P7	AK1	22	Dir lower
P8	AK2	22	Dargai
P9	JA	22	Dir lower
P10	BA	23	Dir lower
P11	NA	22	Malakand
P12	IU	23	Swat
P13	MW	23	Malakand
P14	MK	23	Dargai
P15	FA	21	Batkhela

The respondents of this study consisted of 15 students from the FIMS College of Nursing and Health Sciences, Malakand, Khyber Pakhtunkhwa, Pakistan. All participants were 6th semester nursing students



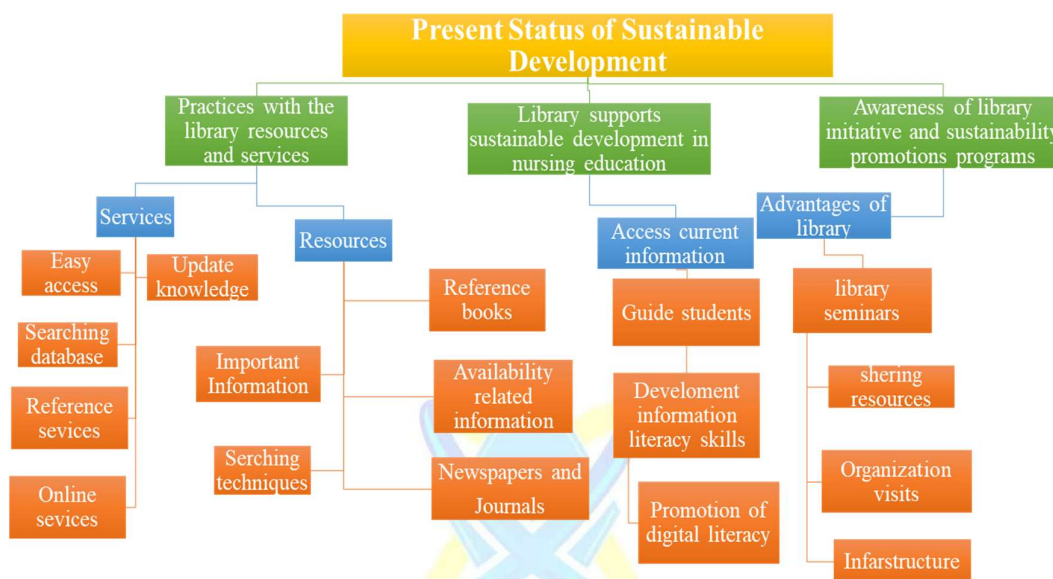
pursuing a Bachelor of Science (BSc) degree. The age range of the participants was 21 to 24 years. These students reported utilizing various libraries across different colleges, in addition to the library at FIMS College of Nursing and Health Sciences. All participants provided informed consent and agreed to the terms and conditions of the research interview.

Thematic analysis

Thematic analysis present status of sustainable development

Figure 1

Thematic Analysis



The study explores the sustainable development of the Focus Institute of Modern Science Library in Dargai, Malakand district, focusing on four main themes: current status, challenges faced by patrons, collaborative efforts, and a framework, with participant quotes.

Practices with the library resources and services.

Services

Engaging students in library services is crucial for its sustainable development. Effective resource utilization, including online services, knowledge repositories, and databases, ensures continuous growth. However, further improvements are needed for sustainability.

1. **MK:** “I am rightly access to library resources, including physical and digital materials”
2. **IU:** “**college** library providing updated books, journals, and research materials to keep me informed for the my improvements”
3. **BA:** “Our librarian facilitatng me efficient searching and retrieval of information through electronic databases and digital catalogues”
4. **AK:** “Our college library assisting us with research inquiries, citations, and academic writing support”
5. **HU:** “ To me library offering digital access to e-books, journals, and virtual learning resources”

Resources

Library resources play a fundamental role in supporting students' academic growth and ensuring the sustainable development of libraries. Effective utilization of these resources contributes to knowledge enhancement, research efficiency, and long-term library sustainability.

Participant Perspectives

1. **HU:** “**Our college library is** availability to ensures students can access credible and well-structured information and also these books provide foundational knowledge, supporting in-depth research and academic writing”



2. **HZ:** “Our Libraries ensuring me to stay updated with relevant knowledge in their field of study”
3. **SK1:** “I easily access to subject specific books, journals, and digital resources ensures find relevant material to support my research and coursework”
4. **SK2:** “By teaching me efficient searching methods (such as keyword searches, Boolean operators, and database navigation) enhances my ability to retrieve accurate and related information”
5. **MM:** “Library provide me current affairs, research advancements, and scholarly articles, keeping me informed about the up-to-date developments in my areas of interest”

Analysis

Libraries enhance academic growth by improving research, knowledge access, and learning efficiency. Enhancing digital accessibility, training, and content relevance ensures library effectiveness and sustainability.

Library supports sustainable development in nursing education

Libraries enhance digital literacy, provide reliable information, and guide students in nursing education, preparing future nurses for evidence-based practice and lifelong learning.

Participant Perspectives

SK1: “Our library provides a wealth of current nursing literature, including research articles, textbooks, and clinical guidelines, to keep nursing students abreast of the latest healthcare advancements”

HZ: “I guide nursing students in researching, referencing, and accessing credible academic sources, fostering strong analytical and evidence-based practice skills.”

SK2: “Our college library train students in effective information retrieval techniques, such as database searching, evaluating sources, and proper citation methods, enhancing their research capabilities”

HU: “I integration of technology in healthcare, library support nursing students by providing access to digital resources, electronic journals, and online learning platforms, preparing them for a technology-driven healthcare environment”

Analysis

Libraries are crucial in nursing education, providing research, textbooks, and clinical guidelines, enhancing information literacy, and promoting digital literacy for a technology-driven healthcare environment.

Awareness of library initiative and sustainability promotions programs

Library initiatives promote sustainability, fostering knowledge-sharing, environmental awareness, and academic excellence. Engaging students and researchers contribute to long-term resource management and academic development.

Advantages of the Library

HU: “Our libraries provide free and equitable access to academic resources, research materials, and digital tools”

HZ: “College library are foster a culture of reading, research, and lifelong learning”

SK1: “I serve as knowledge hubs that support students, educators, and researchers in their academic and professional growth”

Library Seminars

KK: “I attended educational sessions on research skills, information literacy, and digital resource utilization”

SK2: “I attended training workshops on sustainability practices in academic institutions”

MM: “I know the awareness programs on responsible information use and ethical research”

Sharing Resources

AK1: “by me library services that reduce duplication of resources and ensure equal access”

AK2: “I have using digital repositories that promote open-access learning materials”

BA: “If our library Collaborative partnerships between institutions to enhance resource availability”

Organizational Visits

IU: “I Study tours to research centres, archives, and academic institutions”

MW: “I exposure to advanced library management systems and sustainability initiatives”



MK: "I opportunities for students to learn best practices in library resource management"

Infrastructure Development

MW: "I eco-friendly library buildings with sustainable energy solutions"

JA: "I have experience with Digital libraries reducing paper usage and promoting green reading habits"

BA: "I advise to Implementation of smart technologies for efficient library management"

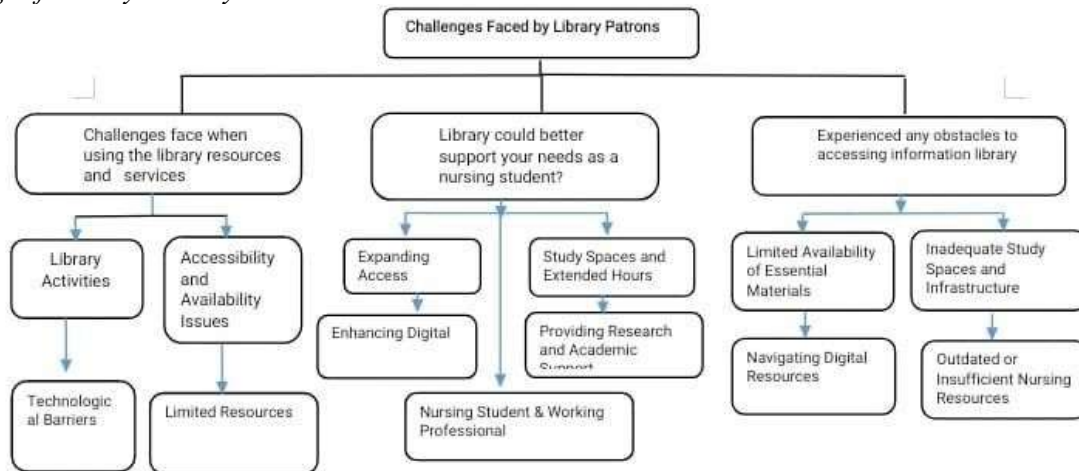
Analysis

Library initiatives foster knowledge-sharing, resource management, academic development, and environmental awareness through free access, lifelong learning, and educational seminars on research skills, sustainability practices, and ethical information use.

Libraries are crucial for academic and professional growth, providing resources, research support, and digital accessibility. They enhance learning, promote digital literacy, and support evidence-based practice in nursing education. Sustainability initiatives ensure libraries remain lifelong learning hubs.

Figure 2

Challenges faced by Library Patrons



1. Challenges Faced When Using Library Resources and Services

Participant Perspectives

HU "Sometimes the library's digital systems are difficult to navigate, and I struggle to find the materials I need."

NA "There are not enough computers, and sometimes the internet is too slow to access research papers."

SK "The library doesn't have enough copies of essential nursing books, so I often have to wait for someone to return them."

KK "The library closes too early, and as a nursing student with clinical shifts, I need extended hours."

MM "Many of the online databases require subscriptions, and I can't access them from home."

KK "I find it difficult to use the e-library because there is no proper training on how to search for nursing journals."

MW "The books and journals available are outdated, and we need access to the latest research in nursing."

KK "There are not enough research papers on nursing topics, and I struggle to find reliable sources."

2. How Libraries Could Better Support Nursing Students

Participant Perspectives

FA "The library should extend its hours, especially during exam time, so we can study properly."

JA "It would help if they provided remote access to digital materials, so we don't have to come physically to the library."

KK "If the library offered digital literacy workshops, I would feel more confident using online"



databases."

SK2 "They need to improve their online system so we can search and find nursing resources more easily."

AK1 "There are not enough quiet spaces to study, and the group study rooms are always occupied."

IU "Longer library hours would be really helpful, especially for students who also work."

HZ "Librarians should offer training on how to search for evidence-based research articles specific to nursing."

BA "It would be great if the library had a dedicated nursing section with research guides and academic writing support."

JA "As a nursing student and part-time worker, I struggle to find time for research. The library should have more flexible hours and online resources."

MW "We need access to clinical guidelines and patient care books that are relevant to our coursework."

3. Obstacles to Accessing Information in the Library

Participant Perspectives

AK1 "The key textbooks are always checked out, and we don't have enough copies."

KK "Sometimes, the library doesn't have specific nursing research papers that we need for our assignments."

MW "It's hard to find the exact nursing journals I need because the library's digital system is confusing."

HU "Some databases require subscriptions that the university doesn't provide, which limits our access to updated research."

BA "There aren't enough study spaces, and sometimes it's too noisy to concentrate."

MK "The library needs to have better infrastructure, like more seating and charging stations."

SK1 "Many of the books are old editions, and we need updated materials for modern nursing practices."

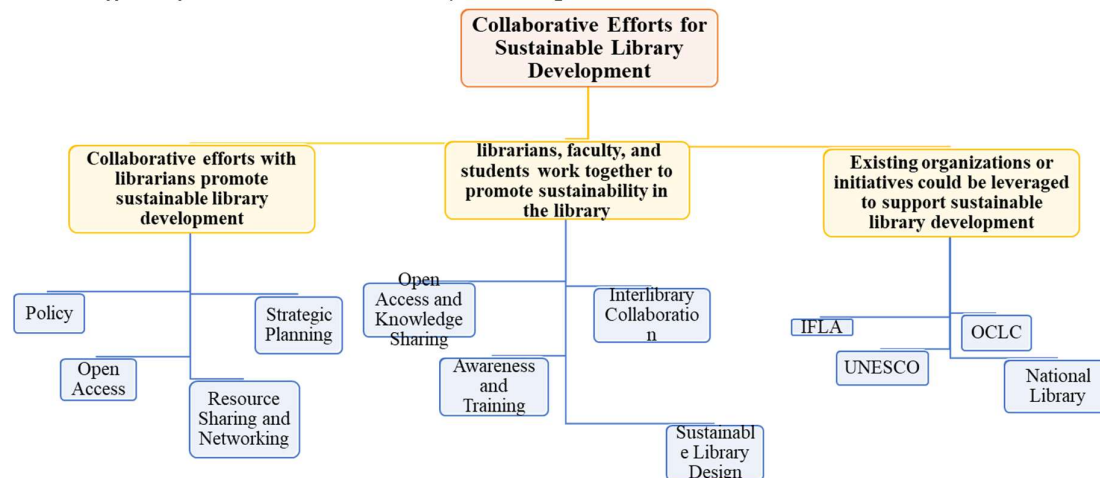
NA "The library doesn't have enough clinical practice guidelines or case studies relevant to our field."

Analysis

Nursing students face challenges in library resource utilization due to technological barriers, limited resources, and accessibility issues. Libraries should expand access, enhance digital support, provide study spaces, and offer 24/7 support. Nursing students face challenges accessing library resources due to limited materials, digital navigation, technological barriers, outdated materials, and outdated study spaces. To improve academic experience, expand access, enhance digital support, and improve study environments.

Figure 3

Collaborative Efforts for Sustainable Library Development





1. Collaborative Efforts with Librarians for Sustainable Library Development

Libraries are crucial for information access and knowledge dissemination. Collaboration between librarians and institutions can enhance sustainability through policy implementation, strategic planning, and resource sharing, promoting equitable access, minimizing waste, and enhancing accessibility.

Participant Perspectives:

SK1 *“Our library needs more open-access policies so students and researchers can freely access essential resources.”*

FA *“Networking with other libraries would help us get better resources instead of relying solely on our limited collection.”*

2. Faculty, Students, and Librarians Working Together for Sustainability

Engaging stakeholders, including students and faculty, is crucial for sustainable library development. Key collaborations include open access, knowledge sharing, awareness, interlibrary collaboration, and sustainable library design, promoting eco-friendly infrastructure and energy efficiency.

Participant Perspectives:

HZ *“If we receive proper training on digital research tools, we won’t have to rely on printed materials as much.”*

MK *“More digital resources and less reliance on paper-based materials can contribute to a greener library environment.”*

3. Role of External Organizations in Sustainable Library Development

International organizations like IFLA, UNESCO, OCLC, and national libraries are promoting sustainable library initiatives, promoting knowledge sharing, digital access, and country-wide resource management policies.

Participant Perspectives:

JA *“Libraries should partner with organizations like UNESCO to implement sustainable initiatives at a larger scale.”*

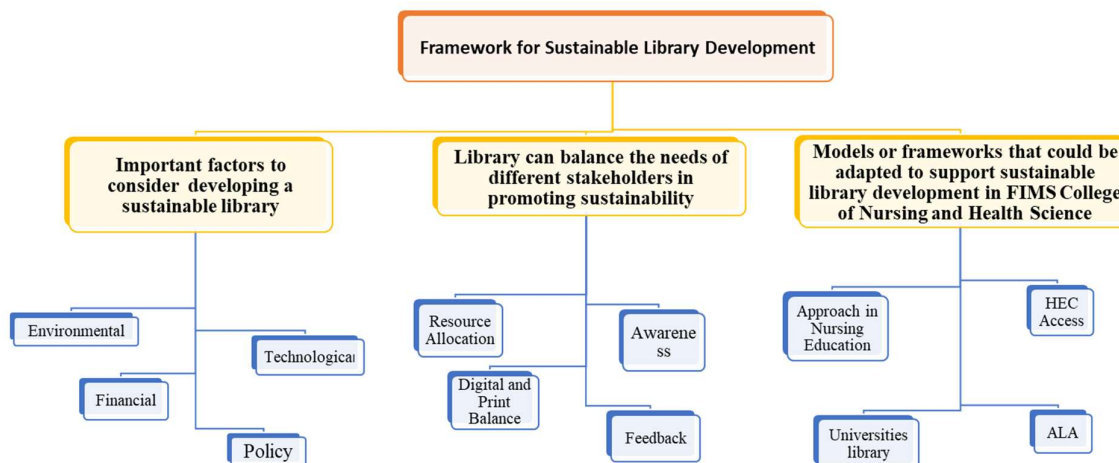
AK1 *“National libraries should take the lead in promoting digitalization and sustainability practices.”*

Analysis

Librarians promote sustainable library practices through policy, open access, strategic planning, resource sharing, faculty and student participation, digital repositories, awareness, training, interlibrary collaboration, and sustainable design, collaborating with external organizations for funding and collaboration. Sustainable library development involves collaboration among librarians, faculty, students, and external organizations, promoting open-access initiatives, resource sharing, knowledge sharing, and digital access, enhancing long-term sustainability.

Figure 4

Framework for Sustainable Library Development





1. Important Factors in Developing a Sustainable Library

Sustainable libraries prioritize environmental impact, financial stability, technology integration, and policy development, focusing on eco-friendly materials and energy-efficient systems, digital transformation, and clear policies for efficient resource use.

Participant Perspective:

HU *"Libraries should implement green practices like energy-saving lighting and sustainable materials."*

SK1 *"Investment in digital resources can reduce long-term costs while ensuring accessibility."*

BA *"Libraries should incorporate more digital learning resources and AI-based search systems." FA*
"Sustainability policies should include guidelines on digital resource management."

2. Balancing Stakeholder Needs in Promoting Sustainability

Libraries must balance student, faculty, and administration needs through effective resource allocation and awareness programs, ensuring accessibility through a hybrid model and educating users about sustainability practices.

Participant Perspective:

HZ *"Libraries should ensure a balanced investment between print and digital resources."*

MW *"Maintaining both digital and print formats is essential for inclusive learning."*

NA *"Workshops on sustainable information management would be beneficial."*

MM *"Regular surveys should be conducted to assess user needs and resource effectiveness."*

3. Adaptable Models for Sustainable Library Development

Established institutions' frameworks and best practices can guide sustainable library development, optimizing resource use in nursing education, leveraging successful university libraries, and adhering to HEC Access and ALA guidelines.

Participant Perspective:

MK *"Libraries in health sciences should prioritize evidence-based digital resources."*

AK1 *"Adapting university library models can help in improving sustainability measures."*

JA *"Aligning library policies with ALA guidelines ensures long-term sustainability."*

IU *"HEC Access can provide funding and support for digital resource expansion."*

Analysis

Libraries should prioritize sustainability by considering environmental, financial, technological, and policy factors, balancing stakeholder needs, and adopting adaptable models for long-term accessibility. Sustainable library development balances stakeholder needs, institutional requirements, and environmental, financial, technological, and policy aspects, focusing on digital and print balance, resource allocation, and feedback systems.

5. Discussion

Sustainable library development is a crucial aspect of modern educational institutions, requiring a strategic and multi-faceted approach. Libraries serve as essential knowledge centres, and ensuring their long-term viability demands careful planning that integrates environmental sustainability, financial stability, technological advancements, and policy frameworks.

One of the fundamental aspects of sustainability is the environmental impact of library operations. Sustainable libraries prioritize energy-efficient infrastructure, eco-friendly materials, and responsible resource management. Participants such as (HU) emphasized the importance of implementing green practices, including energy-saving lighting and sustainable material usage. Additionally, financial sustainability plays a crucial role in library development. A well-funded library can invest in advanced digital resources, reducing long-term costs while maintaining accessibility. As highlighted by (SK1), digital investments are not only cost-effective but also enhance user experience by providing a broader range of learning materials.

Technological integration is another key driver of sustainability. The transition from print to digital resources is essential for enhancing accessibility and efficiency. Participants such as (BA) pointed out that modern libraries should incorporate AI-based search systems and digital repositories to streamline information retrieval. However, this shift requires well-defined policies to ensure smooth implementation and



resource optimization. As (FA) suggested, library policies should provide clear guidelines on digital resource management, ensuring that both digital and print materials are effectively maintained.

Balancing the needs of different stakeholders is a significant challenge in sustainable library development. Libraries serve students, faculty, and researchers, all of whom have different expectations regarding resource availability. A well-balanced resource allocation strategy, as suggested by (HZ), ensures equitable access to both digital and print resources. Additionally, awareness programs and feedback mechanisms play a vital role in sustainability efforts. (NA) emphasized the need for educational workshops on sustainable information management, while (MM) recommended conducting regular surveys to assess user needs and resource effectiveness.

To further enhance sustainability, libraries can adopt proven models and frameworks from established institutions. In the field of nursing and health sciences, specialized approaches can optimize resource utilization. (MK) highlighted the importance of prioritizing evidence-based digital resources for medical and nursing education. Additionally, adopting successful university library models (AKI) and leveraging external frameworks such as HEC Access and ALA guidelines (JA, IU) can provide structured solutions to improve long-term sustainability.

6. Conclusion

A sustainable library is crucial for long-term sustainability, requiring a strategic approach that considers environmental, financial, technological, and policy factors. Key strategies include eco-friendly practices, digital transformation, technological advancements, policy frameworks, balanced resource allocation, awareness programs, and adopting institutional and international models. These strategies help libraries, particularly those in nursing and allied health sciences, become resilient, future-ready, and well-equipped to support academic excellence. Sustainable library development is not just about preserving resources but also creating an adaptable and inclusive knowledge ecosystem that benefits all stakeholders in the long run.

Contribution of Authors

All the authors participated in the ideation, development, and final approval of the manuscript, making significant contributions to the work reported.

Conflict of Interest Statement

The authors declare no conflicts of interest.

Funding Statement

This research received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors.

Informed Consent

Informed consent was obtained from all individual participants included in the study.

Ethical Approval

All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and/or national research committee and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards.

Data Availability

The datasets generated during and analysed during the current study are available from the corresponding author on reasonable request.

References

- East Central Regional Library (ECRL). (2019). *Collection development policy*. <https://ecrlib.org/wp-content/uploads/2019/02/CollectionDevelopment-Policy-Approved-021119.pdf>
- Food for Thought. (n.d.). *What is policy?* <http://www.foodthoughtful.ca/section4/4.pdf>
- Functions of library committee. (n.d.). http://www.vesasc.org/library_comm.pdf
- Iris, X., & Krystyna, K. M. (2016). *Discover digital libraries*. Business Jargons. <https://businessjargons.com/management.html>
- Jensen, K. (2017). No more liaisons: Collection management strategies in hard times. *Collection Management*, 42(1), 3.6. <https://www.tandfonline.com/doi/abs/10.1080/01462679.2016.1263812>



- Kelly, M., & O. Gara, G. (2018). Collections assessment: Developing sustainable programs and projects. *The Serials Librarian*, 74(1/4), 19-29. <https://www.tandfonline.com/doi/pdf/10.1080/0361526X.2018.1428453>
- Mehra, B., & Elder, A. (2018). Benefits to collection development librarians from collaborating with “community-embedded” librarians-in-training. *Collection Management*, 43(2), 120-137. <https://doi.org/10.1080/01462679.2018.1426510>
- Mir, F. M. (2016). Challenges and possibilities for collection development & management at Govt. Degree College Baramulla: An experience at library. *International Journal of Science, Engineering and Technology Research*, 5(12), 3435-3444.
- Okogwu, F. I., & Ekere, F. C. (2018). Collection development policies of electronic resources in university libraries in Southeast Nigeria. *Library Philosophy and Practice*, Article 1758. <http://digitalcommons.unl.edu/libphilprac/1758>
- Okolo, S. E., Eserada, R. E., Ugboh, P. N., & Ngbo, D. L. (2019). Collections and collection development exercise in libraries: A perspective in view. *Library Philosophy and Practice*. <https://digitalcommons.unl.edu/libphilprac/2244>
- Okwu, E., & Echem, M. (2019). Collection development policy and user satisfaction in university libraries in Rivers State, Nigeria. *Library Philosophy and Practice*, Article 2142. <http://digitalcommons.unl.edu/libphilprac/2142>
- Oluwaniyi, S. A. (2015). Preservation of information resources in selected school libraries in Ibadan North Local Government Area of Oyo State, Nigeria. *Library Philosophy and Practice*, Article 1220. <https://digitalcommons.unl.edu/libphilprac/1220/>
- Oluwaseun, A. A., Ottong, E. J., & Ottong, U. J. (2017). *Preservation of library resources in Nigeria universities: A study of collections in Cross River State universities*. <https://scholarworks.lib.csusb.edu/cgi/viewcontent.cgi?article=1391&context=ciima>
- Patel, S. (2016). Collection development in academic libraries. *International Journal of Library and Information Science*, 8(7), 62-67. <http://www.academicjournals.org/IJLIS>
- Ravikumara, S., & Sawian, E. N. (2016). *Collection development policy of the library and its relevance to the prescribed books in the syllabus: A study of St. Anthony's College*. https://www.researchgate.net/publication/304714193_Collection_Development_Policy_of_the_Library_and_its_Relevance_to_the_Syllabus_A_Study_of_St_Anthony%27s_College
- Sisimwo, J. (2019). *Electronic resources and its application in collection development practices in academic libraries: The case of United States International University* (Master's degree research project, University of Nairobi). <http://erepository.uonbi.ac.ke/bitstream/handle/11295/109456/>
- T. Y. Project Work. (2018). *Preservation and security of information resources in libraries in Niger State, Nigeria*. <https://www.tycomputer.com.ng/preservation-and-security-of/>
- Timothy, Z. A., Dangwaran, T. Y., & Oluwabunmi, O. O. (2017). Preservation and conservation of library resources in Bingham. *International Journal of Applied Technologies in Library and Information Management*. <http://www.jatlim.org/volumes/volume3/vol3-1/Zintah.pdf>