

## **Uses and Purpose of the Information and Communication Technology and Its Impact on Women Library Professionals in Bhopal**

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### **ABSTRACT**

With the development of technology, it is simple to recommend all of the frameworks in an approachable way. With the help of the Library Management Framework (LMS), traditional libraries can become computerised libraries. In traditional libraries, patrons/students must search for out-of-print books and there may not be proper maintenance of the data base on fines/issues. Since work is generally moving slowly forward, it is impossible to produce a report quickly. The custodians must show up prepared to organise and arrange the books in the book sales. They must simultaneously review and screen the loan/acquire book's finer points. Working in multiple fields at once is a tedious cycle. The LMS will make it easier for the keepers to work.

The components of libraries and data management have evolved in the recent past as a result of mechanical, affordable, and social changes. The existence and viability of the libraries are profoundly impacted by these developments. It simultaneously provides a wealth of beneficial opportunities and settings for managing the library and data administrations sensibly. The data management and information registering skills need to be updated and improved upon by the library professionals in light of the new roles and the changing environment. As a result, library professionals will seek to develop the skills needed to guide libraries toward adopting new operating procedures in order to deal with the challenges presented by modern society. Libraries confront enormous challenges managing data, and they must address these challenges by managing the libraries successfully for the future and changing the libraries to a sustainable future.

**Keywords:** *Technology, Library Management, Bhopal, automation software packages*

### **1. INTRODUCTION**

A library is a place where a sizable collection of books and resources are available and open to the public. It functions as a mind for the groundwork. It enhances knowledge dissemination and significant advancement among the students. The abundance of books and research papers is

inspiring the students to improvise their insight from various angles. It instructs the learners to advance their viewpoints in a particular way. With the help of this information, the understudy is better equipped to increase both their academic and personal competence. A technological act of spontaneity sparks curiosity in finding a way to transform the traditional library setup into a computerised one. A number of lengthy procedures reduce the library's output. For instance, it always requires personal assistance to complete any exercises in the standard library. For reference, the number and specifics of the books are written on the paper. Every piece of information is carried with a notepad for future use. They need to conceal the note pads in order to examine any information. The book id, circulation and restoration date, and understudy id must all be entered into the notepad simultaneously with allocating the volumes to the students.

Each book needs to be given a tag and an ID by the custodians or employees. The books on the shelves need to be adjusted, organised, and stamped. The loss or theft of the book creates a problematic situation and chaos for the custodians. They must check the consequences of the books while collecting the books from the students. This results in a depressing atmosphere among the workforce. As a result of the staff's slow advancement, it creates a dull environment for the students. We designed a system called the Library Management framework to bring the library into the mechanical era (LMS). Through a single click, a programmed framework reduces the staff's and curators' workload. It will complete, organise, and place the library assignment. The curator is supported by the LMS to add, view, erase, and update details from the library stock. Here, we integrate the SQL server with all of the library's data. The administrator must first incorporate book and understudy details into the data set. He or she can then view, delete, or change those details using the Library Management framework. The client can now access the library whenever they want. The information can be helped by the curators with essentially no chaos. From the data set, every piece of information is recovered. If the user accesses any client information, it displays their username, ID, book information, and punishment information. For any future references, the compelling argument needs to be recorded in writing. They can adjust the border in it by changing the information. The administrator can feel comfortable working with the designed framework even when using the instructions.

Over the years, there has been significant progress in a wide range of learning where students, teachers, instructors, and scientists all provide a similar virtual environment but are distributed according to a geographic perspective. There are a remarkable number of new devices on the market, and access to PC frameworks has undoubtedly been streamlined. These developments are affecting libraries and documentation priorities as well as learning systems, exhibiting models, and exploration. A massive amount of information is being created and delivered from all corners of the globe at this time thanks to the influence of information, including print materials, research articles, addresses, shows, video conferencing, specific reports, benchmarks, and licencing. This condition gives rise to a new type of library that modifies the traditional conception of the library. Libraries will no longer function as compilers or "storers" of fundamentally true material going forward, and they will cease to exist for an extended period of time as areas devoid of real region or

substance.

## **2. LITERATURE REVIEW**

The library management framework was updated in Shasha et al.'s research to address the issue of understudy interest. In a study that was proposed by Honghai et al. he addressed the loss of interest in the disc that is combined with the books. He suggested distributed computing for information movement to reduce the cost of the library. A article on creating the expectation model for the library was introduced by Bao et al. He offered two models for predicting the cycle, such as the t-test and the co-productive of fundamental assurance. This analysis clarifies significant areas of strength for the loaning and readership numbers. In order to plan the creation of the model library, they largely concentrate on lending from libraries. In a manuscript that was submitted, Eraxiang et al highlighted the limitations of traditional library management approaches. He provided a solution for the obstacle by utilising the MVC design's swaggers and rest structure.

Thapa and Sahoo (2007) examined a few Bhopal libraries in order to understand the problems brought on by automation as compared to standard procedures used in various libraries. Surveys were conducted at Bhopal's 16 libraries. The sixteenth library reported that, up until this point, it had not encountered any problems. The results showed that 15 libraries had pre-automation concerns. In any event, 13 of the 14 libraries reviewed announced post-automation difficulties, whereas 4 didn't. 14 libraries claimed that automation has generally been a significant benefit to their operations.

A contextual examination of the ABIMS was first published in 2009 by Ahmad and Iqbal, who focused mostly on the implementation of library automation in the foundation's library. The focus also looked at why the Al- Barkaat Instructive Society chose Alice for Windows library software for its library automation and provided a detailed breakdown of the various AFW library software modules.

Ossai-Ugbah (2010) conducted a poll of students and discovered that the majority of the respondents agreed that there is a strong correlation between academic openness to the use of automated library services and satisfaction with these services. However, the respondents identified sluggish Web speeds and the fact that admission to automated library offices was not always prepared to meet the various times that students preferred to browse the Web as important restrictions. The study recommended that organisations boost their Web data transmission and make it accessible throughout the day and night so that students are permitted touse it.

In Tamil Nadu, India, Jayaprakash and Balasubramania (2011) created and oversaw a survey to examine automation in college libraries. The designers implied that automation is essential for efficient library tasks and to help library users save time. The survey results also explained the problems created by experts and workers both during and after the automation cycle.

## **3. LIBRARY AUTOMATION SOFTWARE PACKAGES**

There are various specialised library administration software programmes available. Some of the most well- known ones are those seen below.

### **3.1. Alice for Windows**

AFW is a comprehensive library and data management framework that supports the management and control of library operations while bringing robust programmed report and asset control. It is a collection of worldwide software from the Softlink Worldwide Organization. It has evolved and achieved the situation that is driving library automation software worldwide in recent years.

### **3.2. NETLIB**

It supports all internal library activities and is a coordinated multi-client library management architecture. NETLIB includes modules for ordering articles, listing courses, serials, and online community inventories (OPAC).

### **3.3. Tech Lib**

The OPAC, index maintenance, distribution, serials administration, procurement, handling, and MARC inventoring are all supported by an ILS software. Data Aspect Inc.

### **3.4. LIBSYS**

It is a product of LIBSYS Ltd., New Delhi, and provides a framework for integrated library administration. It supports ordering articles, recording lectures, ordering serials, ordering from the Web-OPAC, and reporting modules.

### **3.5. VIRTUA**

Virginia Tech Library Framework Inc. has developed a coordinated library framework software. Acquisitions and asset bookkeeping, listing, dissemination, serials control, OPAC, measures, and announcing are among the various VIRTUA modules.

## **4. METHODOLOGY**

An example of clients from four selected management institution libraries in Aligarh is being used as the basis for the current review. The techniques used included surveys and informal gatherings of bookkeepers. The inspectors chose the case based on a unique inspecting strategy and conducted the survey using an unconventional method.

## **5. ANALYSIS AND INTERPRETATION**

Given that there are roughly the same numbers of seats available for business management students in each institution, questionnaires were distributed to management students attending the four universities.

### 5.1. Impact of automation on library services

Three administrators are shown in Table 1 to acknowledge that automation has increased the efficacy of library administrations. The performance of library administrations is somewhat impacted by automation, according to the fourth bookkeeper.

### 5.2. Type of library automation software

Table 2 shows that no libraries under investigation use proprietary, open-source, or free software for library automation. However, each of the four uses unique permitted or purchased software for automation work. ABIMS uses Alice for Windows, SSITM uses NETLIB, VCTM uses TechLib7, and IIMT uses the TechLib library programme.

**Table: 1.** Automation's effects on library services

Number of respondents Total (per cent)					
Category	ABIMS	SSITM	VCTM	IIMT	Total (per cent)
Slightly improved		yes			2(14)
Improved	yes		yes	yes	2(64)
Deteriorated					0
Remain same					0

**Table: 2.** library automation software type

Number of respondents Total (per cent)					
Category	ABIMS	SSITM	VCTM	IIMT	Total (per cent)
Open/free					0
In-house					0
Purchased/licensed	Alice for Windows	NETLIB	TechLib7	TechLib	5(200)

## 6. FINDINGS

Based on an analysis of the study's findings, it is reasonable to conclude that:

- Of the custodians, 75% agree that automation has improved their library's administrations (Table 1). Both the employees providing the data and the time spent on each client were greatly reduced via automation. In the informal meeting, the curators expressed their views on how automation has reduced their responsibility while freeing up their time and labour. The way that automation has changed library advantages and saved users time was also noted by clients.
- All libraries use various purchased, authorised software for library automation, including programmes like NETLIB, TechLib7, and Alice for Windows (Table 2). Despite the fact that there is a wide variety of open- source software available online, they are using proprietary software for library automation mostly due to the availability of specialised support and the product's simplicity of use.

## 6. CONCLUSION

By using managers of four management organisations as well as management understudies who are pursuing MBA programmes as examples, the evaluation sought to examine the impact of automation on library administrations at selected management foundation libraries in Aligarh.

The review demonstrated how new expert foundation libraries are automated in order to essentially meet the fundamental requirements necessary to engage with clients' varied and intricate educational needs and requests.

In general, it's undeniably true that the library and data framework is the foundation of any organisation and should be strengthened through automated libraries to ensure that, in this particular period of high educational demands, the proper information is provided to the perfect individual brilliantly.

These days, the Custodians are in charge of managing vast amounts of advanced data. Data management in the libraries has gotten out of control. So, in order to effectively handle the sophisticated data, curators are expected to safeguard and improve the information.

The libraries should abandon the notion of collection-focused services in favour of client-focused services by developing strong relationships with donors and adopting data management skills to provide cost-effective Library and Data Administrations that support the parent association's scholarly mission.

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