

Need Of Advance Automation Of Library System Of Madhya Pradesh For Better Resource Sharing

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Abstract

The studies article attempts to explain the popularity of Library Automation withinside the Jabalpur Division of the Madhya Pradesh State with unique reference of the Universities. Researcher attempts to explain the popularity of the library automation seriously and finish the examine with the concept for betterment in future. The studies pupil collects the information via questionnaire technique for examine. Paper additionally mentioned approximately the time period automation and Library –automation. Tries to explain the numerous issues/demanding situations in those day’s associated with library automation, which can be at once or not directly have an effect on the library automation work/procedure in any Library. The Paper in brief describes a few point/treatments for correct implementation of library automation withinside the universities library house responsibilities and provider sector.

Keywords:Automation,Library-automation,UniversitiesLibrary,Factor,issues,remediesandsuggestion.

Introduction

University Library helps the principle goal of the institute to come to be an group of its reputation withinside the subject of respective information domain. It is likewise devoted to help the colleges undertaking for seamless integration of coaching and studies motivating access of brilliant college students and college into the institute, supplying excessive high-satisfactory training in a studies orientated surroundings to younger and academically encouraged undergraduate and postgraduate college students. Library performs an vital position in assisting the instructional programmes of the institute. It identifies, evaluates, procures, techniques after which makes those gaining knowledge of sources to be had to the college and college students for his or her coaching and studies. Library has continually been striving difficult to fulfill the

expectancies of its customers however, there was a protracted felt want to deliver readability and uniformity in technique and practices of the library to enhance its efficiency, application and offerings with shop the time his/her customers. Now in those day's we've simply entered in new millennium or new technological era. The Information and Communication Technology (ICT) make numerous adjustments in each stroll of step additionally in Library Sectors. In latest many years we've witnessed the established order of automation industries and library statistics networks and offerings round the arena thru use of ICT. The use of Information Technology gear allows a tremendous go with the drift of statistics to cease person through statistics offerings. ICT makes numerous adjustments withinside the location of library statistics offerings which include ee-e book acquisition, cataloguing Serial - control, Web-Opac, CAS and SDI etc. And extrade the conventional library into the e-library or statistics centre. Library statistics Professionals are shop budget, time manpower in ordinary jobs and capable of offer powerful library statistics offerings with none limitation.

Automation: What it is?

In the historical instances human beings labored with the aid of using hand. They made each task, each works with none assist. Later they started to perform a little simple (and later greater complicated) machines, eg. water wheels for lifting water from channels, mills (water and wind mills) for milling corns, etc. They started to apply animals to present their force, their electricity to get paintings machines, vehicles, etc.

In the XIXth century the machines have been capable of do many tasks. Steam engines gave the mechanical power to machines, however the guy needed to manage each gadget and pc manage all of the statistics processing and retrieval process.

“The time period automation is utilized in computerized manufacturing, manage system, computing equipment or gadget that reduces the participation of human labour in manufacturing or services” – New Encyclopedia Britannica

“Any paintings which has been completed with assist of computerized gadget like pc with none human interface is referred to as automation. The largest advantage of automation is that it saves labor, however, it's also used to shop power and substances and to enhance fine, accuracy and precision”.

On the idea of the definitions of automation the subsequent can be taken into consideration to be its critical characteristics:-

- The operations of strategies are accomplished automatically
- Avoids or reduces human movements and therefore shop labour
- Increases accuracy and fine of paintings
- Increases performance and speed- up the operations

Library Automation

The Phenomena of mechanization of conventional library activities, inclusive of acquisition, serial manipulate, cataloguing, flow manipulate etc., become known as library automation. “Library automation refers to apply of computers, related peripheral media and usage of laptop primarily based totally services and products withinside the overall performance of all kind of library features and operation. Computers are able to introducing a superb diploma of automation in operation, characteristic seeing that they may be electronic, programmable and are manipulate over the methods being performed”. Library automation is the overall time period for Information conversation technology which might be used to update guide gadget withinside the library.

Automation: Issues, Challenges And Remedies

Libraries are notorious for collecting and storing information insociety. An endless supply of information is continuously generated in these institutions and anyone can readily access it regardless of time and space, thanks to the rapid advancement of computer technology in contemporary society. But the successful process of library automation has many issues and challenges are: need a proper planning, sound budget, lack of awareness of standard format, skilled or trained manpower etc.

There are some problems raised in library automation as follows:

Lack Of Proper Planning

Planning of library automation will contain right feasibility examine of the undertaking to keep away from waste of time, money, strength and to make certain the achievement of the undertaking. In spite of its inherent benefits, library automation is a capital-in depth venture. This is due to the excessive value related to pc hardware and software. No undertaking can prevail with out a previous feasibility examine. The adoption of any automation device withinside the library ought to be primarily based totally on a extensive variety feasibility examine, so as to decide the adequacy of the programme. In mild of the reality that there are actually new hardwares and softwares used for library automation it turns into vital for

establishments to decide whether or not they've ok reassets of assets to perform library automation. Unless that is done, there are sure to be troubles right here and there.

A right making plans for library automation need to encompass following points:-

- Objective of library
- Library finance and budget
- System analysis
- Identification of predominant place of library automation
- Sources of data/Standard layout Z39.50, MARC, RDF etc.
- Hardware requirement
- Software for library automation : business or open supply software
- Skilled professionals
- Maintenance and development
- Services through automation

Lack Of Fund/Economical Resources

The maximum essential hurdle for a library in pursuit of automation is to gain the essential funds. The foremost impediment for any improvements in growing nations is the dearth of resources. The preliminary fee of organising a laptop machine is past the attain of maximum companies and institutions. Generally any a success and jogging operation required a legitimate economic useful resource for getting of hardware, software program and different companion peripherals of ICT.

The library automation committee have to maintain withinside the thoughts expenditure for library automation and additionally for similarly renovation and improvement fee for aa success automation process. A 12 months clever improvement plan for library automation and provider have to upload withinside the library automation plan.

Lack Of Resources And Technology

Most of the library encountered that the library automation paintings affected because of trouble of an enough consciousness of contemporary era like hardware , software program issues.The library described honestly the intention and goal of the library automation and computerisation that is to offer huge get entry to to digitized library collections, the use of laptop primarily based totally competencies to dispense library offerings to the end-users. Library control comes to a decision on utility software program that would aid included library control machine. The utility

software program to pick out have to be assessed to decide its scope and capability so one can be appropriate to obtain library intention. There are lengthy lists of utility software program programs withinside the market. Few of those softwares are UNESCO micro CDS/ISIS, TINLIB, Konlib pro-library manager, X-lib, Alice for window, Integrated Library Software Koha, Greenstone, Glass etc. Using a well-drawn parameters as given with the aid of using Adekanye (2011) the software program programs had been assessed.

According to Adekanye (2011) the suitability of a bundle will be assessed primarily based totally at the following:

- Producer/supplier popularity and reliability base at the overall performance of preceding installations
- Software practical flexibility and expandability
- Indexing and looking capabilities
- Interactivity of enter and output interfaces
- System protection provisions
- Good machine documentation and manuals
- Cost
- Scope of patron training
- Possibility of machine upgrading
- Compliance with the Internet

Impact Of Automation

Studies of office, industrial, and library automation record that automation has the finest effect on group of workers withinside the decrease tiers of the company wherein the paintings is routine; and much less effect on the pinnacle wherein authority and selection making are concentrated (Kraske, 1978; Zuboff, 1982, 1985, 1988; Shiff, 1983; Atkinson, 1984; Diebold, 1984; Freedman, 1984; Roscow, 1984; Dakshinamurti, 1985; Waters, 1985, 1986, 1988, 1989; Caudle & Newcome, 1986; Lynch & Verdin, 1986; Horny, 1987; Bergen, 1988; DeKlerk & Euster, 1989; Jones, 1989; Forester, 1989; Harris et al, 1989; Hoer et al, 1989; Long, 1989; Olsgaard, 1989; Smith, 1989; Prentice, 1990).

The literature shows that the fantastic outcomes of automation are:-

- A discount in repetitive paintings and tedious procedures
- An growth in ability stage

- Possibly better process satisfaction
- An growth withinside the sort of tasks
- Greater flexibility
- Integration of diverse Library house-retaining services

Scope Of The Take A Look At

The scope of the take a look at entitled “Library Automation Status withinside the Universities of the Jabalpur Division ” is restrained to the college libraries in Jabalpur Division of Madhya Pradesh. The take a look at consists of all of the Five college libraries in Jabalpur Division set up on or earlier than 2015, namely: Rani DurgavatiVishwavidyalaya (Rani Durgavati University), additionally called University of Jabalpur-1956, Jawaharlal Nehru KrishiVishwaVidyalaya (JNKVV), additionally Jawaharlal Nehru Agricultural University Library-1964, NanajiDeshmukh Veterinary Science University, previously Madhya Pradesh Pashu-ChikitsaVigyanVishwavidyalaya Library-2009, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur (IITDM Jabalpur), additionally called PanditDwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing-2005 and Maharishi Mahesh Yogi Vedic University, additionally called Maharishi Mahesh Yogi Vedic Vishwavidyalaya (MMYVV), Katni-1995.

The choice concerning the choice of 5 college libraries for this take a look at is primarily based totally on a few good judgment and justifications. All those 5 universities shape a part of the Jabalpur Division, that is an essential area of India for all purposes. All those universities have properly set up libraries and are recognized via way of means of the University Grants Commission (UGC), India. All the 5 college libraries have been set up in the course of the length 1956 to 2009 consequently a few are very vintage and some are in growing stage.

Objectives Of The Take A Look At

IT has introduced drastic and dramatic modifications withinside the functioning of the libraries and the offerings they provide. Automation in college libraries of Jabalpur Division became commenced in early 2000’s. During the closing one decade, those libraries have computerized a number of their functions, and feature commenced offering a number of the computer-primarily based totally offerings. Since exceptional has emerge as the trademark in all spheres of human activities, and therefore, libraries aren't anyt any exceptions. The foremost goal of this take a look at is to degree the extent and standing of library automation in college libraries. It is

research of the prevailing situation of library automation. The 2nd goal is to locate motives for decrease stage of automation than the preferred stage and advise corrective measures.

Methods Of Data Collection

Since the hassle below research became very complicated and of complete nature, therefore, questionnaire and remark strategies have been used for statistics series from 5 libraries settings. The authentic studies statistics accrued for the motive of exploring automation software in college libraries. The paper attracts closely on library survey and is complemented and supplemented via way of means of the take a look at and synthesis of the prevailing literature on library automation looking back and prospect. However, qualitative statistics (views, opinions, and attitudes) measured and observed.

Data Analysis:The data have been presented, compared, and analysed by using tables.

Table1 Number Of Books In The Library

Number of Books in thousand	Number of Libraries	Percentage (%)
Less than 10	00	00
11-30	02	40
31-60	01	20
61-90	01	20
More than 90	01	20

Table2 Number of CD-ROM/DVD-ROM In The Library

Numbers	Number of Libraries	Percentage (%)
Less than 500	04	80
500-1000	01	20
More than 1000	00	00
Not Available	00	00

Table3 Number Of Sections In The Library

Numbers	Number of Libraries	Percentage (%)
Acquisition Section	5	100
Circulation Section	5	100
Reference Section	5	100
Periodical section	3	60
Stack Area	5	100
News Papers	4	80

Audio-Visual	3	60
DigitalRoom	3	60
CD-DVDROM	3	60
OPAC	3	60
Reprography	3	60
	5	100

Table4TrainedStaffForTheLibraryAutomation

DistributionofStaff	NumberofLibraries	Percentage (%)
TrainedStaff	02	40
Semi-Trained	01	20
Untrained	02	40

Table4.1TechnicalQualificationForTheLibraryAutomation

DistributionofStaff	NumberofLibraries	Percentage (%)
PGDLAN	00	00
PGDCA	01	20
DCA	00	00
Other	00	00
Nothaveanytechnicalqualification	01	80

Table5TotalLibraryBudget

Budget (InLakh)	NumberofLibraries	Percentage (%)
Less than5	01	20
5-10	00	00
11-15	02	40
16-20	01	20
Morethan20	01	20

Table6BudgetForLibraryAutomation

Budget (InLakh)	NumberofLibraries	Percentage (%)
Less than5	03	60
5-10	02	40
11-15	00	00
16-20	00	00
Morethan20	00	00
Noanybudgetallotted	00	00

Table7BudgetForITEquipmentInstalledIn TheLibraries

Budget (InLakh)	NumberofLibraries	Percentage (%)
Lessthan10	05	100
11-20	00	00
Morethan20	00	00
Noanybudgetallotted	00	00

Table8AvailabilityOfComputerAnd OtherAutomationEquipmentinLibraries

Descriptionof equipments	NumberofLibraries			
	YES	PERCENTAGE	NIL	PERCENTAGE
Computer	05	100	00	00
Computer-Server	04	80	01	20
Clients	04	80	01	20
Printer	05	100	00	00
LCDProjector	00	00	05	100
Scanner	03	60	20	40
BarcodeScanner	04	80	01	20
UPS	04	80	01	20
Backup-Device	04	80	01	20
Internet Connectivity	05	100	00	00
PhotocopyMachine	03	60	02	40

Table9LevelOfServerUsedIn LibraryAutomation

Level	NumberofLibraries	Percentage (%)
General	01	20
Average	02	40
Good	01	20
Best	01	20

Table10LevelofClientsUsedInLibraryAutomation

Level	NumberofLibraries	Percentage (%)
General	01	20
Average	02	40
Good	01	20
Best	01	20

Table11LevelofNetworkAndOther EquipmentsUsedInLibraryAutomation

Level	NumberofLibraries	Percentage (%)
General	01	20
Average	03	60
Good	01	20
Best	00	00

Table12AvailabilityOfWeb-ServerUsedInLibraryAutomation

Availability	NumberofLibraries	Percentage (%)
Yes	02	40
No	03	60

Table13AvailabilityOfInternetInLibraryAutomation

Availability	NumberofLibraries	Percentage (%)
Yes	05	100
No	00	00

Table14AvailabilityOfOnlineFeaturesInTheLMS

Availability	NumberofLibraries	Percentage (%)
Yes	03	60
No	02	40

Table15AvailabilityOfRFID TechnologyInTheLibrary

Availability	NumberofLibraries	Percentage (%)
Yes	02	40
No	03	60

Table16UseofLMSInTheLibraryAutomation

LMS	NumberofLibraries	Percentage (%)
Sanjay	00	00
Libsys	00	00
SOUL	00	00
KOHA	02	40
SoftGranth	01	20
e-Lib	01	20

Solyman	01	20
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Table 17 Availability of Updation Feature In The LMS

Availability	Number of Libraries	Percentage (%)
Yes	02	40
No	00	60

Table 18 Present Status Of Library Automation

Availability	Number of Libraries	Percentage (%)
Complete	03	60
Partially	01	20
In Process	01	20
Not yet started	00	00

Findings From The Study

The implementation of library automation software program is a project that brings with it a totally new surroundings for library personnel and library customers. The observe indicates that the repute of library automation in Jabalpur Division of Madhya Pradesh and constrained to 5 universities of the Jabalpur Division can not be in comparison with that of every other vicinity of Madhya Pradesh. All the Five college libraries in Jabalpur Division hooked up on or earlier than 2015, Rani Durgavati Vishwavidyalaya (Rani Durgavati University), Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV), Nanaji Deshmukh Veterinary Science University, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur (IIITDM Jabalpur) and Maharishi Mahesh Yogi Vedic University are carried out the Library Automation, a few essential findings and notion submitted below:-

- Table 1-Number of Books within the Library: All the Libraries have a terrific series of revealed books for his/her customers instructional want as according to the accumulated facts variety of books quantity extra than eleven thousand and a few libraries have series of books extra than 50 hundreds so library automation is fundamental subject to the quick and correct offerings to the library customers.
- Table 4-Trained personnel for the Library Automation: Human assets are the maximum number one and maximum important elements in figuring out best stage of a library. A Successful Library Automation required well-educated technical personnel for guide the Library Automation. There is 40% educated, 20 % semi-educated personnel and 40% untrained

personnel. Study proven there may be want of extra educated personnel or education and talent improvement required for the library personnel for acquire the intention and challenge.

- Table 6-Budget for Library Automation: All 5 libraries are being absolutely supported via way of means of college government withinside the depend of finance and infrastructure even than development in those libraries isn't always to the mark due to loss of enough funds. Therefore, libraries need to first broaden a right plan for upcoming expenditure for best after which best subculture will emerge mechanically and could streamline each issue of library automation. In summarized manner there may be additionally want of extra finances allocation for the Library Automation.

- Table 7- Budget for IT device set up withinside the Libraries: All 5 libraries are being absolutely supported via way of means of college government withinside the depend of finance and infrastructure for IT equipments set up withinside the libraries libraries need to ought to hold withinside the thoughts the destiny desires and broaden a right plan for upcoming expenditure for updation of IT equipments.

- Table 8- Availability of Computer and different automation device in Libraries: All 5 libraries have a terrific infrastructure for Library Automation. There is want of self carrier module for the customers.

- Table 9- Level of Server utilized in Library Automation: All 5 libraries have Server for automation. There most effective one library have a contemporary configuration with server system. The observe propose to all different libraries to replace or update the server so that they discover extra protection and area for consumer offerings.

- Table 12- Availability of Web-Server utilized in Library Automation: Only libraries have Web-Server for automation. There are many benefits to the use of an internet server inside your improvement surroundings. Of course, in a manufacturing web website hosting surroundings, an internet server is vital. And, relying for your website, an internet server ought to certainly be vital for your improvement surroundings. Web-Server permits to store your back-up in cloud. The observe propose to different libraries to apply Web-server for huge fulfillment and destiny prospectus.

- Table 15- Availability of RFID Technology withinside the Library: Only libraries set up the RFID primarily based totally self check-in and check-out stations and protection system. The RFID answers wanted extra finances to set up and operation. Libraries take selection on

availability of finances.

- Table 16- Use of LMS withinside the Library Automation: Two libraries set up the Open supply LMS KOHA different 3 libraies custom designed the LMS on their preferred desires.
- Table 17- Availability of upadation function withinside the LMS: Two libraries set up the Open supply LMS KOHA and the S/w offer upadation of upcoming version. Other 3 libraies custom designed the LMS the carrier issuer now no longer offer upadation of LMS.
- Table 18- Present Status of Library Automation: Three libraries absolutely completed the automation method. One library partly completed the automation and continue to be one library paintings on it and method in development. We want to all libraies as quickly as acquire their intention and challenge thru automation and satisfy 5 legal guidelines of LIS.

Conclusion

The demanding situations mentioned above must be born in thoughts through application implementers if they may be to succeed. Any strive at automating instructional libraries must be certainly considered one among trial and blunders and must be together done. The examine proven the Library Automation in innovative level in Jabalpur Division Universities Library. There is want to recruit greater technical manpower and teach them as in line with want. Library Automation price range allocation is one greater crucial element is there, management consciousness in this and aid the library automation programme. Only via this could instructional libraries be capable of offer powerful and practical offerings and thereby keeping their part as main libraries withinside the region.

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