

Problems And Prospect Of ICT Implementation And Digitization Among The Major College Libraries Of Dhemaji District, Assam: A Case Study

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Abstract

The current paper discussed about the various issues and challenges of ICT Implementation and Digitization of colleges libraries of Dhemaji district, Assam. The study aims at evaluate the implementation of ICT in the functioning of college libraries under study. It also tries to study about the feasibility of networking among the surveyed libraries. It also tries to identify the problems facing by the library authority in this whole process. In recent decades, many major libraries are trying to developed and provide their services to the users by the help of technology and digitization process. UGC's autonomous centre INFLIBNET are continuously doing their best effort in supporting the automation of libraries of North East region with their software 'SOUL' and other helping hand. For this study five college libraries of Dhemaji district were selected randomly and data are analyzed in various heads. The paper mainly discussed about the ground problems of the college libraries in the ICT implementation and digitization.

Keywords: - *College Library, Dhemaji, Digitization, ICT (Implementation Communication Technology),*

I. Introduction

The main concentration of library personnel is to satisfy the user the documents available with them. Modern users are highly serious about their time value. Information communication technology (ICT) and digital library system plays an important role in present day's in fulfill users need. Colleges are important sector of higher education system. Colleges of Dhemaji district cover of Dibrugarh University jurisdiction. The ICT development and digital library systems are still in a very initial stage in colleges libraries of Dhemaji district. Development of ICT and digital library system are demand of time to fulfill the information needs. I have selected five major colleges of the district for this research study. These colleges are taken into account of study on the basis of importance and established period.

No library is able to complet with the tremendous flow of the information generation. As a result, they have to depend on other for value information. Use of modern tools is also a reason to overcome these problems. Digitization of libraries generally means with traditional system of libraries with ICT infrastructure.

Major colleges of Dhemaji district under this research study: -

- i) Dhemaji College, Dhemaji
- ii) Dhemaji Commerce College, Dhemaji
- iii) Moridhal College, Moridhal
- iv) Silapathar College, Silapathar
- v) Murkongselek College, Jonai

Institute of higher learning college need a good library system with present days networking environment. Implementation of ICT and digitization process is very much essential for the better academic development through the connectivity among libraries to maintain co-operation, resource sharing through institutional responsitories and other-e-resources available through internet. College's libraries of Dhemaji District, Assam also have better scopes to develop its libraries with latest ICT infrastructure and digital library system by growing its potential.

II. Statement of problem

Research is done to generate new ideas. It is done to find out a solution of a problem. Without problem no research has been done. When problem aries people think about its solution. The under taken colleges libraries of Dhemaji in this study paper have a various problem in the field of library ICT implementation and digitization. The Colleges of Dhemaji are lack behind of national development in the changing environment of ICT and digital library world. After finding the gap of development in ICT infrastructure and digital library systems the hiding problems have been accounted in this study of major colleges of Dhemaji district.

III. Objectives of the study

The basic objectives of the present study are to find out to what extent the libraries of Dhemaaji district have implanted the automation and how they have been serving the user communities and the various challenges facing by them.

Moreover a few points are also considered to: -

- i) To find out the status of growth availability of the ICT infrastructure.
- ii) Find out what type of ICT resources available in the surveyed libraries.
- iii) To findout the availability of internet facilities accessible by the users.
- iv) To find out the basic problem and prospects towards implementation of ICT and digitization in the surveyed college libraries.
- v) After tracing the problems to find out the future scopes towards ICT implementation and digitization of the college libraries of Dhemaaji district towards achieving its academic goal.

IV. Scope and limitations of the study

There are so many scopes as well as limitations to study among the major colleges of Dhemaaji district about the problem and prospect of ICT implementation and digitization. The colleges of Dhemaaji district can be grow by implementing ICT infrastructure and digitization for creating better academic environment. Users of college libraries will get more benefited in their study and research aspect, If ICT component and digital library system will develop well. As a sample Five major importance college have been selected in random way. All research instrumentation will not be applied for this study, due to lack of infrastural development communication gap in the area of research.

V. Methodology

The current research paper has been conducted by survey research method. Questionnaire was prepared and distributed among the librarians some information was collected by personal interview with the librarians. Basic research question of this study is how far libraries of selected research area developed in ICT and Networking?

VI. Data Analysis and Interpretation

Data analysis is the most important part of research. Data analysis is a set of methods that are used to interpret data and convert into useful and required information.

After the successful survey now, the time is to analysis the data and present in tabular format for better understanding. The survey, which was taken among the six major colleges of Dhemaaji district, shows the following results.

The data collected from the colleges are presented in Table 1 to 6.

6.1 Status of ICT infrastructure Level of the college Libraries of Dhemaaji District.

The below given table shows about the ICT infrastructure of both hardware and software available to the college libraries of selected colleges. All the college have a computer according to the data collected. Among the Five major collegese, Dhemaaji College has the highest number of computers, whereas Murkongselek College have lowest number of computers. In all the college's libraries they have a Printer, Scanner, Photocopier and BAR Code reader. All the college libraries use Windows as their Operating System. And also, all college's uses SOUL Software developed by INFLIBNET.

Table.1: ICT Infrastructures Level (Hardware and Software)

Name of the college	Total's Nos of PC's	Total No's of Server	Printer	Scanners	Photo copier	Operating Software	Library Software	Power Back-up's	BAR Code Reader
Dhemaaji College,Dhemaaji	15	02	02	02	01	Windows 10	SOUL 2.0 D Space	Online UPS	YES
Dhemaaji Commerce College,Dhemaaji	07	01	01	01	01	Windows 7	SOUL-1	Inverter	YES
Moridhal College,Moridhal	07	02	03	03	01	Windows 10	SOUL 2.0, D Space	5KV Online UPS	YES
Silapathar College,Silapathar	10	2	01	01	01	Windows 10	SOUL 2.0	6KVOnline UPS	YES
Murkongselek College,Jonai	05	01	01	01	01	Windows 7	SOUL 2.0	Inverter	YES

6.2 Networking Components and internet Connectivity types of the colleges.

Table No.2. Shows about the internet connectivity and its details. Except Dhemaaji College all other Colleges uses JIO connectivity as their services provider with different bandwidths. Moridhal College have the maximum high-speed bandwidths with 6 Mbps. 50% of colleges establish the network configuration in LAN (Local Area Network). And also 50% colleges providing the facilities of WIFI connection to the User's. Moridhal College providing Open WIFI facility to the User's within their College Campus. Users can access only the college URL (Uniform Resource Locator) and can read or download their needy documents. Dhemaaji college is establishing their LAN connection through Fiber Optic cable communication system as a result the data transmit is more speed than the other colleges. According to the data collected Dhemaaji College and Moridhal College is highly moving toward digitization System as compare to the others college.

Table.2-Internet Connectivity Type

Name of the College	Internet Connectivity Type	Bandwidth	Service Provider	WIFI Facility	Computer's Connection Type
Dhemaaji College,Dhemaaji	Broadband with Fiber Cable	5 Mbps	BSNL	YES	LAN
Dhemaaji Commerce College,Dhemaaji	GSM	2 Mbps	JIO	NO	WIFI
Moridhal College,Moridhal	ILL-JIO	6 Mbps	JIO	YES	LAN
Silapathar College,Silapathar	ISDN	4 Mbps	JIO	YES	LAN
Murkongselek College,Jonai	GSM	2 Mbps	JIO	NO	WIFI

6.3 Libraries member of national network of India

The below table shows about the associated members of national library networks. All the college libraries are the member of INFLIBNET.

Table:3 Associated Library Networks of the college Libraries

Name of the College	INFLIBNET	DELNET	CALINET	Any-Other's
Dhemaaji College,Dhemaaji	✓	×	×	NIL
Dhemaaji Commerce College,Dhemaaji	✓	×	×	NIL
Moridhal College,Moridhal	✓	×	×	NIL
Silapathar College,Silapathar	✓	×	×	NIL
Murkongselek College,Jonai	✓	×	×	NIL

6.4 Libraries joined in the consortium

The below table shows about the consortium membership of the selected college libraries of Dhemaaji district.All the colleges are the member of N-LIST (National Library and Information Services Infrastructure for scholar concent) of INLIBNET.

Table:4 Consortium member Libraries

Name of the College	UGC Infonet	INDEST	N-list	Any-Other's
Dhemaaji College,Dhemaaji	NO	NO	YES	---
Dhemaaji Commerce College,Dhemaaji	NO	NO	YES	---
Moridhal College,Moridhal	NO	NO	YES	---
Silapathar College,Silapathar	NO	NO	YES	---
Murkongselek College,Jonai	NO	NO	YES	---

6: 5 Fund System of the Libraries in ICT and Digitization process.

In the development of ICT infrastructure and digitization process most of the selected major college of Dhemaaji district getting fund from Govt's grant and other sources like RUSA.

Table: 5 Fund System of the Libraries in ICT and Digitization process.

Name of the College	UGC's Grant.	Govt. Grant.	Library Fund from student Fees.	Any-Other's
Dhemaji College,Dhemaji	NO	NO	NO	RUSA
Dhemaji Commerce College,Dhemaji	NO	YES	YES	
Moridhal College,Moridhal	YES	NO	NO	RUSA
Silapathar College,Silapathar	Yes	YES	Yes	RUSA
Murkongselek College,Jonai	NO	YES	YES	NO

6.6 Human Resources Survey

The below table shows about the human resources available to the libraries towards activation of function. All the selected college have a librarian.90% college librarian have not got professional training on ICT through INFLIBNET. All college libraries have 01 to 05 semiprofessional/supporting staff with librarians.

Table:6 Human Resources Survey

Name of the College	Existence of Librarian	Qualification of Librarian	Advance Training on ICT	Other Professional /Supporting Staff Strength
Dhemaji College,Dhemaji	YES	M.A, M.LISc, M. Phil, Ph.D	YES	04
Dhemaji Commerce College,Dhemaji	YES	M.LISc,M.Phil	NO	02
Moridhal College,Moridhal	YES	M.A, B.Lib.	YES	05
Silapathar College,Silapathar	YES	M.LISc, M.Phil	NO	02
Murkongselek College,Jonai	YES	M.LISc, M.Phil	NO	02

Finding & Suggestions

After a critical analysis about the various problem and prospects of implementation of ICT and digitization of the selected college librarians of dhemaji district some major findings are given below: -

- All the colleges have more or less infrastructure level of ICT application in their libraries.
- The digitization process is more progressing in two colleges namely Dhemaji College and Moridhal College. Dhemaji College is using Optical-fiber cable for information communication, which transmit/retrieved data very speedily. Whereas Moridhal college fully handover the library in user's hand. User can easily access the library from any corner of the college campus by the open WI-FI connection provide by the college library. They can easily access and download their required document like., Question paper, e-journal, article etc.All other college library still have to start this system.
- From the above study it has been find that all library has ICT infrastructure more or less in a position. But after the evaluative study it has been notice the library housekeeping operations not fully operated. It means libraries have to complete automation system. INFLIBNET centre continuously supported to developments of library automation through SOUL, Cataloguing and OPAC systems of all the colleges functioning properly without any hindrance.
- From user's point of view the internet connectivity of some colleges are just for a name. There is no internet service provider or a WI-FI facilities. Insufficient of computer is also of the major problem of some colleges.

Suggestion

Based on Implementation of ICT and Digitization on selected major college of libraries of Dhemaji district a few suggestions has been drawn according to the study report-

- For the development of ICT infrastructure in the libraries of selected colleges under study can take innovative thoughts to create a fund by the librarian and college authority of the colleges. They can take initiative to collect fund from state Govt. students of the college, some local bodies etc.
- For the development of ICT infrastructure and library Networking policy making should be given most important. Librarian can take short term and long-term action plan with proper support of college authority for the ICT development for the libraries.
- Due to lack of management policy a few colleges have ICT infrastructure but innovative services are not functioning properly. In this regard college's librarian should take user orientation to their student as well as teacher community in a large scale. Sometime special programme must be organized among the users to make aware about their e-resources.

iv) As a future prospect issue of the college libraries the librarian's and other professional staff should be given advance training in ICT or given to do ICT based courses as a carrier advancement scheme. The orientation and refresher courses of academic college of UGC should be more emphasis in this issue.

Conclusion

As a conclusion report there are so many problems and challenges in implementation of ICT and digitization process of library development in the selected major colleges of Dhemaji district. As a rural area Dhemaji district is not equally developed in comparison of another district of Assam. Except one or two college libraries most of the colleges are not properly equipped with latest information and communication technology. In some colleges computers are there but without functioning which should be changed. An innovative idea and proper policy making by the college authorities are very much important subject concern which are briefly discussed in this research study. Continuous effort of development in the field of ICT infrastructure with latest technological equipment and digitization with an innovative thought important college library of Dhemaji district may be improved for the quality education purpose. Hopefully college libraries of Dhemaji district libraries can be changed to updated its status through establish with the latest ICT infrastructure system in connection with national development.

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