

Use of Digital Libraries and Information and Communication Technologies in Research

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Abstract

Education plays vital role in economic and social development of any country. In modern world, use of Information and Communication Technologies (ICT) has dramatic effects in carry out their functions of teaching, learning and research. In higher education research is needed for the development of student and teacher. Digital libraries play an important role in research by helping researcher in their work completion and publication. The emergence of modern libraries with ICT facilities has opened new ways of accumulating and regulating scientific and technical information to the researcher. This paper deals with the important of digital libraries in research work.

Introduction :-

ICT in higher education enhances the quality of research work. It also saves time, money and efforts of the researchers in their pursuing research. Use of ICT's in libraries has become great for the researcher as they open up wide variety of information according to their need. E.library, shodhaganga, inflienet are some resources which help researchers for servery of literature, references regarding their research work.

ICT tools have become backbone of the research activity. Researcher conduct their surveys online and trying to reach their goals using online resources. Academic libraries provide greater service to accomplish the researcher goals. Academic libraries facilitate universal access of scholarly brains and they allow scholarly community to accomplish their goals efficiently.

ICT Application in Academic Libraries.

In this internet era the new technologies have changed the methods of information storage and retrieval in academic library field. Libraries can store huge amount of information using new technologies and transmit it anywhere, anytime without any obstacles. ICT's facilitate for rapid transmission of information globally through its networks which helps researcher to get information regarding his subject. It also helps library professionals to manage their housekeeping and documentation activities like circulation, acquisition, maintenance of catalogue, periodical management etc. These innovative technology also help researcher in compiling bibliographies, indexing and abstracting.

E-learning in Academic Libraries

ICT's in libraries give more dynamic information to the scholars who need to gain specialized knowledge. ICT tools have changed traditional teaching methods and made distance more effective for its user. ICT provides up-to-date information. The use of ICT in education lends more student centered learning, before that education was associated with strong teachers having high degrees. With the world moving rapidly in to digital media, the role of ICT in education is becoming more and more important and this importance will continue to grow in the 21th century. Being aware

of the significant role of ICT in higher education, educational authorities are implementing the strategies to empower ICT in academic libraries. Sometime having been addicted with web, internet students will have little time to study and even sometime they do not want to attend classes. In such situation teacher can play important role to eradicate these problems.

Teachers can support and facilitate their students to have their own blogs in internet. A lot of web Blog providers are free to the student such as word press. In their own blogs student can write article, poem, news, short stories, or they can also express their opinion by an online forum which is provided in the internet. In this way they are able to express their thoughts. Student will get more and more information and knowledge by browsing in the internet.

Use of ICT Tools

The emergence of ICT has enabled libraries to improve service delivery to teachers, student and its user. Library adopt various technologies to provide information to its users. Following are the some of the ICT tools which are basically used by teachers and student for communication.

- 1) **E-mail** - it is the most effective way of formal communication. Various types of information such as personal message, letter, article, files, pictures can be easily send from any corner of the world within some fraction of second.
- 2) **Voice mail** - it helps to send the mail immediately in form of voice.
- 3) **Fax** - the telephonic transmission of scanned – in printed material can be send in digital form. It provides services like sending official letters and communicate with the vendors.
- 4) **Videoconferencing** - This tool is used when student are out of the campus and they study in other universities under the student exchange programme.
- 5) **Social Media**- Social media such as face book, Twitter, Blogs are the tools used by most of the libraries. Libraries are using social media for marketing of their resources and they also blogs to disseminate short communication.
- 6) **RFID Technology** - Radio Frequency Identification Technology provide enriched and efficient library. It changed the way of library transaction.
- 7) **Closed Circuit Television (CCTV)** – With the help of CCTV librarian can supervise the whole activities in the library.
- 8) **Quick response code technology** :- OR code is used to encode various sorts of data. OR code is very simple to use and it is indispensable to use for quick retrieval of library materials.
- 9) **Use of Library Automation Software** :- The functions of the software are to automate the library work such as acquisition, cataloguing, circulation, serials management etc.
- 10) **Acquisition**:- With the help of web acquisition work has become easy. Order placing, price checking, duplication checking are done very effectively and quickly.
- 11) **Cataloguing** :- Internet and web resources help in cataloging. The online catalogue provides cross references notes circulation status and information about library materials.
- 12) **Stock Verification**:- The use of the computer in stock verification is the most important work. Stock available in the library is scanned with the help of barcode scanner.

Conclusion:- Use of information technology in library gives satisfaction to both teachers and student. The emergency of ICT extend the level of library operation which is helpful in modern era of technology.

References -

- 1) Igwe K.N. (2010):- Resource Sharing in the ICT Era. The case of Nigerian University Libraries, Journal of Inter library loan.
- 2) Suboobi S. & Paramjeet, K. Walia (2013)
“A Comparative analysis of library and information science education in India and United Kingdom” Library Practices and Philosophy E-Journal
20-25
- 3)Kumar U & Svensson J (Eds) (2015) promoting social change and demoing through information technology. IGI Global.
- 4) Narendrakumar Bhoi (Nov. 2017) “Use of Information Communication Technology (ICT) and library operation- an overview” International conference on future of libraries, Bangalore.