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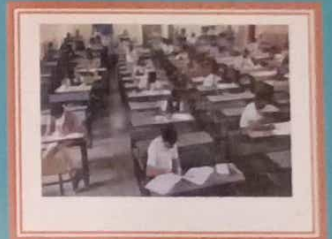
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## Information Communication Technology (ICT) Based Library Services in Higher Education

### Libraries: An Overview

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#### Abstract:

The use of information and communication technologies (ICTs) for education purposes promotes the development of a sustainable education, which will assist to train more responsible and informed students. In order to accomplish the internalization of ethics and the sustainable development of mankind, educational technology management in the context of a sustainable higher education must achieve the internalization of ethics and the ecological growth of humanity. In this paper it is discussed that, in the higher education library and information center, ICT play a precarious role. The purpose of this study is to discuss various ICT-based technologies and their utility in today's modern libraries. The relevance of these ICT-based tools lies in their ability to gather, store, implement, and disseminate information to users.

**Keywords:** higher education; ICT; educational technology; E resources; institutional repository

#### Introduction:

The library is regarded as a vital component of higher education. Academic libraries contribute to the achievement of higher education goals in a variety of ways. They help students and professors with information resources and technology, individual and group work and study, activities and events, and locating, using, and evaluating information. The institute's academic growth is a result of the libraries' efforts. As a result, in this age of information explosion, the information needs of students, faculty members, and researchers are rapidly expanding. It affects the library's ability to improve its function by putting in place relevant ICT resources and services. The work of the library reveals the mission and success of the institution. If the library's services aren't up to par, the institution will lose its status. As a result, the library plays an important role in enhancing the institution's reputation by providing improved ICT services and resources.

#### Objectives:

1. To Understand the Higher education Libraries
2. To understand the Librarians role in ICT based Library services.
3. To know the tools for ICT based Library services
4. To explain the Library services in ICT based environment;

#### The Librarian's Role in the Information and Communication Technology Environment:

The librarian's responsibilities have changed in the new context as a result of ICT. For example, the services that librarians will provide in the future will compel them to use new methods of circulation and online cataloguing, Internet resources search engines that specialize in specific subject areas only, and interlink any piece of information that has relevance to anything else. In the new situation, the librarian should have the following skills, as the librarian will be a highly competent professional whose sole responsibility will be to process and disseminate information to readers.

##### 1. Communication Abilities:-

The librarian should be able to communicate well both orally and in writing.

##### 2. Adaptation Abilities:-

Librarians should be prepared to implement new approaches and technology based on current trends.

##### 3. Management Talents:-

Determines traditional management skills, the librarian must accomplish particular management skills in accordance with ICT.

##### 4. Marketing Abilities:-

The librarian must be able to promote his or her products and services, which necessitates the acquisition of marketing abilities.

##### 5. Update of Knowledge:-

Librarians should keep their knowledge up to date in order to deliver better services to their readers.

#### Apparatuses for ICT Environment:

Computer	E-book
Internet	E-book reader
LAN	E-journal
Server	Web-OPAC

Web Cam	E-mail
CCTV	RFID Technologies
Scanner	Social Media Apps
Printer	Database

### ICT based Online Services in Higher Education Libraries:

Online ICT-based library services are now posing a challenge to library professionals. They must keep up with the technology and its applications. These readers and their work environments are vastly different from those of a library. All-time availability and money-based service are two major characteristics that libraries are focusing on. Library personnel must be professional in order to compete complete he demands of he users. They must fulfill reader's demands best in terms of quality.

#### Web-OPAC:

The internet based technologies have enabled libraries to provide universal access to their catalogues. When OPAC is available on the internet, it allows library patrons to access information from anywhere in the globe. It is also easier for library customers to understand and use OPACs from different library systems. Links to other information resources such as tables of content, full-text documents, author, title, publisher, publication year, and so on are possible with a web-based OPAC.

#### Digital Library Service:

A ICT enabled library offers a wide range of digital knowledge sources. It reduces physical space, allows users to view information remotely, and provides access to distributed information resources. ICT enabled libraries are made up of digital collections that include document surrogates such as bibliographic records and indexes, as well as full-text texts, videos, and photographs that cannot be represented or transferred in printed formats. All ICT enabled library resources can be accessed even from remote locations.

#### Electronic Document Delivery Service:

Libraries are initiating ICT-based Inter-Library Lending (ILL) by utilizing networks to distribute copies of journal articles and other publications in digital format such as PDF to users' computers. It enables people to gain access to information that is not available in their local libraries. It is one of the most useful services for users, particularly remote area researchers.

#### IR Service (Institutional Repository):

Institutional Repository (IR) is a set of services that the higher education institutes provides to its community for the administration and dissemination of digital content by the institution. Most institute libraries offer specific collections of local materials, such as theses and dissertations, research reports, examination papers, conference papers, newsletters and seminar papers, and journal articles written by academic staff members. ICTs have enabled full-text access to these resources, which can be accessed via the institution's website.

#### Current Awareness Service- CAS:

Current Awareness Service refers to the dissemination of information that keeps its users informed and up to date in their sectors of primary interest as well as in related disciplines. It is a method of gaining knowledge about recent events, particularly those that are relevant to the individual's area of specific interest.

#### Library Network Service:

The network's primary function is to connect computers and other communication devices. Networks enable several users to share a shared path and communicate with one another. The networks include the local area network (LAN) in library housekeeping and resource sharing and the wide area network (WAN) that spans a large geographic region such as a country or state, as well as a campus or building that covers a restricted geographic area. e.g. – DELNET, ADINET, INFLIBNET,

#### Open Source Software Service:

Open source software is software that has the source code available for anyone to inspect, edit, and improve. "Source code" is the component of software that most computer users never see; it is the code that computer programmers can edit to change how a piece of software, known as a "program" or "application," operates. Programmers who have access to the source code of computer software can improve it by adding features or fixing areas that don't always perform properly. Open source world such as Integrated Library Systems (ILSs) like Koha; Digital library software, like Greenstone; Digital Repository Software, like DSpace; Content Management Software, like Moodle, etc.

#### Library Portal Service:

A library portal is a single window of access to the library catalogue, subscribed databases, electronic journals, and so on. The library portal satisfies the demands of individual users, and it is now the standard interface for generating library resources and services through a single window access and administration point for users. Librarians are increasingly conscious that the explosion of electronic resources is causing problems for end users.

**Ask-A-Librarian Service:**

Ask-A-Librarian service is Internet-based question-and-answer service that connects readers with a librarian who has specialized subject knowledge and the ability to do precise searches. The majority of "Ask-a-Librarian" service has a web-based question submission form as well as an e-mail address.

**Bulletin Service:**

A bulletin service is an electronic communication platform where people can publish messages and articles about a shared subject, theme, or interest. Users can call in and either leave or retrieve messages. Messages can be sent to all users of the bulletin service or to certain users alone. However, all messages are seen by all users.

**Online User Education:**

Libraries are implementing online-based bibliographic or library use (library literacy) programs for their patrons using ICTs, particularly the Web. These programs, which are mostly accessed via intranets, extranets, or the Internet, include, among other things, online or CD-ROM-based tutorials on exploring online resources and virtual tours of library holdings.

**Electronic theses and dissertations (ETDs):**

Access to full-text versions of Electronic Theses and Dissertations is related to institutional repositories, particularly in university libraries (ETD). It would have been difficult to get full-text copies of theses and dissertations from a remote location without the use of ICTs.

**Scanning Services:**

A scanner is an essential piece of technology in the upgrading of a library. It is handy for scanning the text, image, and content pages of books, as well as for creating a digital and virtual library.

**E-Books Service:**

The higher Education libraries procuring and disseminating more E-books which is easy to store with less space. These have facility of multiple accesses. Libraries don't have to purchase these in multiple copies like print books. This is a very popular service in academic libraries.

**E-Journals:**

The term "electronic journal" refers to any journal, magazine, newsletter, or sort of electronic serial publication that is accessible via the internet and can be accessed by various technologies such as the World Wide Web, Gopher, FTP, telnet, e-mail, or listserv. Many publishers who sell print journal subscriptions will occasionally include a free subscription to the publication's electronic version. Some of the publishers who are providing e-journals include Emerald, Elsevier, Sage, Springer, EBSCO, J-Gate, John Wiley, etc.

**Automated Circulation Service:**

In this service readers can issue and return reading material on their own with the help of automated circulation system which is based on networking.

**Audio-Visual Services:**

Information, education, and enjoyment can all be obtained from audio-visual resources.

**Internet Service:**

As a source of knowledge, has evolved into an information superhighway, opening the floodgates for scholarly collaboration. The Internet is a condensed form of inter-networking, which refers to joining two or more computer networks. The Internet's availability of information has altered the entire landscape of librarianship.

**Use of RFID Technology:**

The concept of Radio Frequency Identifications technology was invented, and it is now utilised in libraries for self-issue, self-return, combined issue/return, fine/charge payment, automatic sorting, security, stock management, and library reading material accessioning.

**Auto Alert Service:**

Auto alert services are e-mail notices delivered by libraries to inform its customers of newly accessible publications in their fields of interest. It assists in informing and updating its regular user service.

#### **Auto Overdue Reminder Service:**

Library management software locates such books that have been delayed by users, as well as giving them auto reminders. As soon as the computer system is turned on, it will begin sending reminders to those who have overdue books.

#### **Online Newspapers Reading:**

Every higher education faculty and library professional student in an educational institution is looking for current information, for news, and events. They will set aside time and visit the library to read today's newspapers.

#### **E-Chat Services:**

E-chat can refer to any type of Internet communication that allows for the immediate transfer of text-based communications from sender to receiver. It can be utilized in libraries for online reference and real-time consultation services.

#### **Conclusion:**

Higher Education libraries are enhancing their services with ICT-based tools and services such as library automation, digital libraries, Auto alert system and e-chats on mobile phones, among others. In academic libraries, the usage of these technologies varies depending on the scope, aims, and money available, and it has certain distinguishing qualities at every stage of development. The library and ICT have a symbiotic relationship, in which any advancement in ICT promotes the advancement of the library. Similarly, any advancement in the library today can only be made through the advancement of ICT. In today's world, libraries are completely reliant on ICT-based products and services to meet the needs of their readers.

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