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# Impact of Information and Communication Technology on Library Environment and Knowledge Management in Library

1<sup>st</sup> Ajay Kaushik Librarian TERII Kurukshetra. 2<sup>nd</sup> Sarthak Gaur Assistant Professor Management Department TERII  
Kurukshetra, India

**Abstract**— The Information Technology is of great help for the people to acquire new skills thereby improving the quality of their lives. ICT has affected every activity of today's environment. It plays a crucial role in the development of library services, resources, structure and information seeking behavior of library users. The present paper deals with the impact of ICT on library affairs, to improve the quality of library services and to minimize the knowledge gap in the developing countries. The growing information communication technologies have been revolutionizing society by making information available to the people in a new way. Use of ICT is increasing day by day as it is time saving, more informative and less expensive.

**Index Terms**— ICT, Library Automation, E-Services, Information Sources, Knowledge Management

## INTRODUCTION

In the modern era of Information technology and Internet, knowledge is the most powerful asset of any country. Libraries have been playing a key role in education, research and development through collection, preservation and dissemination of knowledge. Indian Libraries are working with the air that the right information should reach to the right user at the right time in the right economical way (goria,S., 2012).Rapid advancement in science and technology is going on at a very fast pace. Every activity whether it may be in service sector, Banking, commerce, tourism, manufacturing unit, all have been affected by information and communication Technology) ICT).The impact of information communication technology in library environment started since 19<sup>th</sup> century (Dey, T., 2012) ICT or information and communication Technology refer to a broad spectrum of technologies refer to a broad spectrum of Technologies that allow users to get, produce and share ideas and resources. It is one of the key components of modern society which facilitates the rapid growth and development of a country,

with globalization and liberalization of the world economy. Efforts are now being made in different part of the country towards developing the information infrastructures, specifically suitable dissemination mechanisms, utilizing information and communication technology (ICT). Three types of agencies are involved in this direction i.e. Government (directly/Indirectly/ semi government/ autonomous agencies), Non-Government Organizations (NHOs/Associations) and corporate Agencies (corporate Organizations/ Industrial houses etc.).

## 2. INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

Carter (1987) defined information technology as the system and devices used for receiving, storing, analyzing and communicating information in all its forms and their application to all aspects of our lives, including the office, the factory, and the at home" (Singh and Khanna,1994). Information and communication technologies (ICT) which include radio and television as well as newer digital technologies such as

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computers and all the internet- have been treated as self-reliant. ICT serves best source of collection, storage, organization and dissemination of information through computers or other such electronic devices.

There is requirement of ICT due to information explosion because it becomes impossible to handle large amount of information with manual and conventional library tools such as bibliographies and catalogues etc. Modern library environment requires sophisticated set-up to provide right information at the right way. For this ICT is the best known application to meet the library demands and the need of the hour. ICT has influenced and made easy some of the aspects of the library such as given ahead.

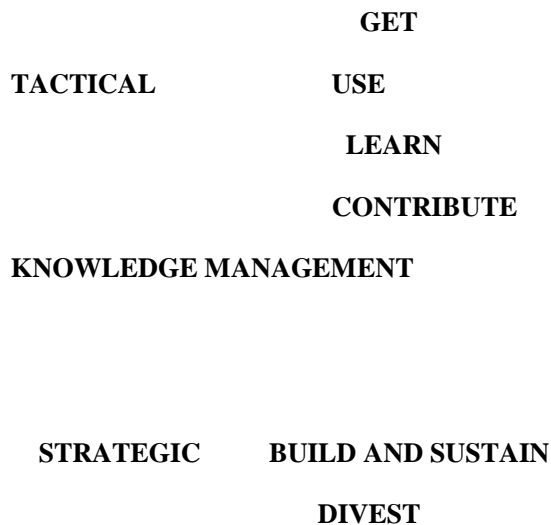
ICT plays an important role in the establishing a virtual library, the one which is wall-less, but a global platform of information sharing. It contains online resources which can be accessed through password or IP authentication (Prem Singh, (1991). ICT can contribute towards institutional repository, the storehouse of publications of the institution in electronic format. Repository is an online locus for disseminating in digital form P.Singh, 2003). The indexes and abstracts can be sent to readers through introduction of ICT tools. Computer assisted reference services can be provided to library users by developing a database of the libraries. Online Public Access Catalogue has replaced and still replacing the traditional card catalogues. OPAC can be activated with ICT. Translation services are also provided by translation software installed in the computer. Similarly reservation of documents can be kept in computers. Compilation of bibliographies, their revision and up gradation from time to time by saving data in software and hardware's can also be done. Undoubtedly internet can work as a tool for the establishment of digital library, a storehouse of information in electronic form (P. Singh, 2008). It is not possible for libraries to manage all reading material due to rise in prices of printed material and high pay of E-Resources. With the help of ICT the requirements of readers can be fulfilled by making consortium of libraries for sharing their resources in order to avoid delicacy of materials, Library marketing it's the process of popularizing library products and services among the users. Marketing plans and methods can be used with the help of ICT. Electronic Newsletters, E-Bulletin, E-Mail, Bulletin Board, E-Logo, E-

Papers Clippings, website etc. can be used as tools for marketing in order to acquaint the users.

### 3. KNOWLEDGE MANAGEMENT

Knowledge Management is a fast-moving field that has been created by the collision of several resources, such as: Human resources, Organizational Development Change Management, Information technology, Brand & Reputation Management and Performance Management & Valuation. (Wendi et al. (2000) have provided building blocks from which concrete steps can be created. The concepts and theories of Knowledge Management have been well documented. There are a few guidebooks for thinking about how to implement Knowledge Management.

ICT are examples of major forces that have moved knowledge Management to and fro. There are two types of knowledge management framework i.e. tactical and strategic.



### 4. CONCLUSION

Information and Communication Technologies no doubt can play a vital role in restructuring the total set-up including

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functioning of the Libraries. Now-a –days the clientele seeks information disrespect of type and formal and location of documents. The needs of information seekers can be fulfilled efficiently by application of ICT in Libraries housekeeping activities and readers services. ICT”s is one set of major forces that have moved knowledge management front and centre. ICT can minimize the paper work in institutes and increase the efficiency of persons. It has made possible and easy for the organizations to attain the desired goals within stipulated period. When used appropriately, ICTs are known to help expand access to education, strengthen the relevance of education to the increasingly digital workplace and raise educational quality. The phenomenal growth of information and the need for its organization, access, and delivery have necessitated internet supported ICT to come to the rescue of the information industry in easy and faster transfer of information and information products globally.

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