Review of Literature

Malavya, V. C. (1999) in this book the author describe library is require to invest in continually evolving technologies and the personnel infrastructures necessary to their utilization and effective operation. Technologies are increasingly complex in themselves their incorporation should support needs simplify the training across computing platforms for the long term. Information technology provides mutual understanding and there by promotes cooperation among world communities.

Mbambo – Thata, Buhle (2007) in his book the author described that libraries are an important part of information transformation, they acquire deliver and organize digital information. Libraries provide the bridge between new digital content and the end-user. The author highlight university library has prevented from developing a dynamic interaction with ICT, electronic information management systems, building and creating digital services for their users. Library automation project is active participation of library management in overseeing the planning, implementation and selection of the library information system.

Das, Anup Kumar (2008) in their book the author have explained open access to information and knowledge is communication with the digital environment information and knowledge to aim at achievement of universal access. Open access is helps to digital inclusion of peoples in developing countries by bringing within easy reach documentary heritage collections, full-text contents of scholarly works and development related literature.

Abubakar, Bappah Magaji (2010) in this paper have justified why the incorporation of Information technology is necessary in the 21st century for library and information science education curriculum. LIS education moves changing society where changes occur due to the advancement and emergence in information and communication technologies, Application of ICTs particularly the intranet, internet and other network technologies have continued to impact positively on the methods of LIS service delivery.

Henry, Charles (2010) explained in their book the future of the library in the digital age. The visions of the virtual library are insisting that the library’s roles to books are central and our print heritage that it would be foolish to supplant with the digital information. They described that
libraries will continue to function as hybrid libraries, appropriate offering access to both print and digital resources.

**Mishra, R. N.; Mishra, C. (2010)** in his article author describes some of the major areas for the relevance of some information literacy in contemporary library and information services. The study is based on document available on library and internet. Information and communication technology and Information Literacy has become significant in library environment.

**Neelakandan. B, Duraisekar. S, Balasubramani. R, Srinivasa Ragavan. S (2010)** in this study implementation of automated library management system in library, library is a growing organism. The traditional methods of maintaining it are no efficient. The better services for the reader, expeditious retrieval and dissemination of information, application of modern techniques has become absolutely indispensable. The users will be helped with quick and prompt services by a properly computerized library.

**Parvez, Ahmad (2011)** in this study is to highlights how much libraries have been exaggerated with the advent of Information Communication Technology based services and products and their priorities have been shifted to on ICT for instance digital archives, library automation, Library services on mobile phone. The author has drawn his attention by the help of this paper towards the innovation and development of information communication technology and its implications in library services, it creates more changes in library management system.

**Aderibigbe, Nurudeen Adeniyi (2012)** in this study find out the usage pattern of library information technology resources among the reader of library. The student’s preference and frequency of using among the IT resources usefulness, to their research activities and studies, because of quite ware of the availability of information technology resources in library. With the IT resources internet is also most preferred by user.

**Bala, Rajni (2012)** in this study describe the new concept of cloud computing library and their types, advantages and disadvantages. These are Web based operating systems and sharing of the data through internet. These are consumers to use application and broadly used in information technology. The new emerged system in the field of library and information science are revolution. For running these computing clouding system internet connection is must in libraries, without internet connection it is impossible to work.
**Bhardwaj, Raj kumar (2012)** in his article the author describe the importance of web based information sources and services present time in web based environment. In the age of ICT library professionals cannot ignore the changes. The role of libraries are changing traditional to digital environment, Library and information professionals develop web based sources and provide web based services to the user. Conclusion to the study is that many faculty members are aware about the e-services and e-resources.

**Khademizadeh, Shahnaz (2012)** in this study author explained the importance of ICT in 20th century has been rendering manual based library system in libraries less relevant. In current digital implementing ICT in library depend on the librarian attitude. The author selected 10 libraries from all the 49 libraries formed the studies population. The users become aware of modern information technology, it is observed that internet (1046; 67.5%) is the most important sources used in their libraries.

**Patel, Umesh A. (2012)** in this paper mainly focuses on the concept of knowledge management and the role of library and information professionals, for in managing the knowledge and information in the digital environment. Development of information technology and its applications in library and information centres, the concept of document management has been changed to information management.

**Ranganadham, S.; Babu, K. Surendra (2012)** in this study indented to know the awareness of the students and use of library information resources and services in Osmania University. Information Play vital role in digital environment, this has become possible because of changing information needs of the users and technological advancements. Modern libraries are playing vital role in storage and dissemination of information by new storage media like microforms, compact discs, magnetic tapes etc.

**Sakharker, Sachin; Choukhande, Vaishali (2012)** in this study author describe the importance of information and communication technology in library and study the needs of information to the users. How ICT are involved to solve the problem faced by the students while handling ICT in libraries and various kinds of information resources available for satisfying the need of user. But without training of staffs and users cannot handle e-resources and services, every service provider institutions must have trained staff members for offering efficient satisfactory services.
Singh, Avaneesh Kumar (2012) in this paper describe the application of ICT are effective in libraries for helps in provided services most efficiently and improve the performing their operation. In the era of information explosion ICT in libraries has become necessary and broad use of digital information resources. For development of resource utilization of resource sharing at various levels ICT saw a major shift.

Guruprasad, R.; Marimuthu, P. (2013) in this research survey analysis of variance from the scientists and engineers of the aerospace organizations for ‘Aerospace Digital Libraries’ The academic libraries are all experiencing the effect on information technology on scientific scholarly communication. The first change included the pervading personal computer, the telecommunication networks that supported the growth of online databases in the 70’s. More recent and current developments like the internet, pre-print databases, electronic periodicals.

Ikonne, Chinyere Nkechi; Onuoha, Ulome Doris; Madukoma, Ezinwanyi (2013) in this paper identified tools of social media that could enable libraries and information services market their products online. The social media is helpful libraries to get closer to the users and helps in accessing information needs of online users. It showed that social media is an indispensable tool for among new generation users and marketing library services especially.

Kumar, Ramesh; Kumar, Dharmesh; Kumar, Ravinder (2013) in this study author analyze the aptitude test for LIS through distance education at graduation level. LIS is covering with several other disciplines such as management, science office automation, computer science and even with behaviourist sciences. The present study is mainly concerned such a brief synoptic view of this sector is also presented with the higher education libraries. In modern age the librarians assumed increased management, administrative and teaching responsibilities.

Moraes de Bem, Roberta; Coelho de Souza, Christiana (2013) in this study author describes use systematic approach, with proposition of identifying trends and applications of knowledge management in the areas of library and information science. There are differences between the concepts of information management and knowledge management characterised as barriers to the implementation of knowledge management.

Patil, Varsha (2013) in this article author showing the challenges and present status of public libraries in Maharashtra state. In present time the traditional system of library services and
resources should be change to the new technology based services and resources. For this changing library have required and support information communication technology implementation.

**Paul, Prontosh Kumar (2013)** in this paper is talks about community informatics and social informatics are important facets in the field of information science and technology. The importance and roll computing and communication technology to these emerging socially responsible domains and tools. To find out role of networking and communication technology for better community, information infrastructure building and learn the possibilities of community informatics in academic world.

**Paulson C. (2013)** in this research paper to analyses the impact of information communication technology (ICT) on information services and facilities in arts and science college library. Higher education’s is playing an important role for employment and source of income. So the students join higher education institute. The quality of faculties and libraries, impress the personality development of students and quality of higher education.

**Raval, Ajaykumar M. (2013)** in this article describes the library automation in some different point of views as like economical, technological and attitudinal problems. The economical problem faced every library and technological problems include both the software and hardware problems of library automation. To establishing a computer system in initial cost is beyond the reach of most institutions and organizations.

**Sharon (2013)** in this paper author presents comparative descriptions and quantitative analysis of library and information science education institutions in America. In present time Information Technology are impacts on library sources, services and curricula of library and information science education programs. LIS adopt information technology impact on curricula. So there are major types of information technology related courses are starting in the curricula of LIS educational programs.

**Adhe, G. D.; Mukhyadal, G. B. (2014)** in this paper describes the great impact of computer and IT and its application on the libraries put a great change taking place in libraries. Modern technology affects the prevailing political, economic and social values and libraries are also in the process. Developed countries were the first to realize that in the context of classical
approaches relating to storage, stock of knowledge, utilization and retrieval of the information were no longer effective.

Anglada, Lluis (2014) in this article author is analysing the evolution of libraries through three stages automation, digitization and modernization. A formula is applied both futuristically and retrospectively, and presented to evaluate the importance of libraries to our society, extrapolating a 2030 scenario. Libraries are greatest longevity in our society; the great technological changes have affected the advent of the internet and digitization of information.

Joy, Baiju (2014) in the present study represent the open source and commercial library automation software LIBSYS and KOHA. The study helps the librarian for selecting and evaluating integrated library software and investigated software features most desired. Library software plays an important role for automating library system. So these are challenges the librarians for automating the library and selection of good library software. Commercial software costs are high price other then open source software.

Mathew, T. Moly (2014) in this present study revealed that the internet accessibility is need to improve in the university library information science students to improve their knowledge and to access information in their field are depends on internet. They update their knowledge in specific field they depend of e-journal for saving their time. ICT have changed the face of education. The students and researcher to find information look first in internet, they use email for communication with their friends, academic persons and families’ member, Google is their most favourite search engine.

Mathew, T. Moly (2014) in his article the author highlight the development of computer technology and communication technology induced changes in the education for aims to train personnel to work in libraries and information centres in a professional way. ICT and computer science in information science curriculum paved the new way for introducing students of processing, storing and retrieving information.

Mazzocut, Muro and Cilofi, Laura (2014) in this paper, the article defines information literacy as the adoption of appropriate information behaviour to identify, through whatever medium or channel, information needs well fitted to information, leading to wise ethical use of information in society. Acquiring and increasing the ability to use information resources consciously is an
essential goal for the research and training for professionals working in the oncology field. Besides, these skills are necessary to communicate properly with the scientific community and the public.

Partap, Bhanu (2014) in the present study author describe in the age of information technology, every field of life and study have mostly effected by ICT. So in the field of LIS every service and information generation and communication working of the library is impacted by ICT. The services process of library is undergoing changes in their ways of information searching, processing and providing.

Prakash, B.; Patil, D. B. (2014) in this paper it describes user perception on information sources and services in Central University in South India are currently at various stages of advancement in sources and services. The results of a research study conducted to survey the user perception of information sources and services. In this study concluded that, the problem facing by users can be solved by the faculty members and library staff of the university to procure in need and relevant sources of information with necessary format in the scope of ICT development.

Ukachi, Ngozi B. (2014) in this paper has also been done brief discussion on the open source software available for integrated library management. For achieving optimal library effectiveness at a minimal cost, the uses of open source software and library automation are relevant. Latest information provided up to date to the user and staff. This process beneficial both the library staff member and the students’ users timely provision of up to date their information.

Velmurugan, V. Senthur; Yakkaldevi, Ashok (2014) in this book the author cover library information, Information science and information society themes such as law of library science, library extension service library and information policy and science, historical development and library network. Library information science and policy are considered vital for all development infrastructure, information services, and utilization of new technologies, manpower and other general recommendations activities of a nation.

Akanwa, C. Pearl (2015) in this paper article describe to words restructuring of library and information science curriculum for the challenge of information communication technology environment and highlight the following areas qualities of library and information science curriculum, requires changes, rationale for restructuring LIS curriculum and conceptual
framework roll of library and information science (LIS) association and other related bodies. The author highlight information technology has provided new learning methods and environments for curriculum of library and information science.

Ghaderi, Chia; Mahmoudifar, Yousef (2015) in the present research is carried out with the aim of applying IT on achieving knowledge management in public libraries of West Azerbaijan. Technology and specially information technologies and communications have improved amazingly. Research approach findings indicates that information technology and hardware facilities, intranet and internet, e-learning and distance learning, data resource sharing are effective in knowledge management in libraries.

Kenchakkanavar, Anand Y. (2015) in this paper describe the social site facebook how to useful for library activities and helpful for library staff. This paper presents eye-catching library services through facebook in the digital world and describes the facebook feature and functions. With the help of social site, user can communicate to library staff if they required to and getting their academic information.

Teli, Soumen; Maity, Asish. (2015) in this paper presently bibliometric analyses of DEDIDOC Journal of Library Information Technology during 2010-14. The DESIDOC journal of library and information Technology is one of the premier journals of library and information science published on bimonthly basis, by DESIDOC. The present study covers various parameters like authorship patterns, year wise growth pattern of articles and geographical distribution of articles.

Ullah Jan, Saeed (2015) in this paper main focus on the purpose, frequency of internet, satisfaction level of the users and barriers to the smooth operation of internet by the teacher community. Internet has converted the whole world in to a global village. Internet is the network of networks. These technological products have completely changed the style of learning and teaching, research, business, communication and correspondence.

Present library problem facing: The modern society is passing through the phase of information explosion. Information is available in print media such as books, periodicals, newspapers maps, etc. as well as in non-print media such as Compact Disks, Phonographic records, films tapes, Microforms and E-Resources etc. Management of various types of information is challenge and a scientific task. Library science emerged as a discipline only in the
end of 19\textsuperscript{th} century, with increase in micro-literature etc. The new array of techniques emerged which was termed “Documentation”. Library is now facing the exponential growth of non-print media and electronic resources. Our topic “A Study on Information Technology Development for Information Resources and Services in College of Education Libraries” shows the importance of Information technology components development. Without these components College of Education libraries cannot face the exponential growth of non-print media and electronic resources today.