

Electronic Security Systems in Academic and Industrial Knowledge Hub and Other Information Foundations

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Abstract - Knowledge and information are most important aspects in today's age. Knowledge Hub is actually a type of knowledge dealing foundation which are responsible for so many knowledge activities; but out of which information processing and management is treated as most important and valuable. Knowledge Hub is a kind of concept which includes so many knowledge foundations such as information centre, documentation centre, data centre, information networks and even conventional libraries. These centers are dedicated with so many equipments and machinery out of which security a system is most important. In a conventional information foundation security system plays an important role. Apart from manual security system so many electronic system are emerging rapidly. Such type electronic security system is responsible for the alarm notification, entry, charging and discharging, access control, video surveillance and so on.

Keywords: Information, Information Technology, Computing, Electronic Security System, Librarian, Academics, collection security, Digital Security, IT Enable services

I. INTRODUCTION

Information Hub is one the important and valuable object these days for healthy and sophisticated information solution which includes collection, selection, organization, processing and management and dissemination. Information Hub such as Conventional Information Centre, Documentation Centre, and Data Centre deals with so many documents in manual/ physical or digital manner. Security and safety in terms of user, staff of the institutions, information resources, and equipments are very much important [01, 05]. Ultimately, the wider spectrum of security is includes safety of all staffs, users, and ultimately protection of the information foundation of various kinds and with its collection and so on. Virtually, the collection is includes manual or physical books, journal, maps, atlas, article and so on. Beside these, manual or physical tools and objects; collection is includes electronic books and documents, online sources, online and digital encyclopedias, DVD, CD and other staff materials. As far as security is concerned, all these collection need to take care by the knowledge professionals such as Librarian, Information Officer and so on [07-08].

II. OBJECTIVES

The main aim and objective of this paper is includes but not limited to as follows.

1. To know basic about Electronic Security System in brief manner;
2. To know about the knowledge and information Hub in brief manner;
3. To learn basic about some Security Systems employed by the Information Centre and similar type of Information Foundations;
4. To know about some elements and components of Electronic Security Systems and so on;
5. To know about the basic Security System needed in Information Foundation and so on.

III. ELECTRONIC SECURITY AND GUIDELINES

Security is very much important in almost all type of organizations and institutions. Thus, like others, in Information Centre and similar foundation too, security is very much important. The security is needed for information centre's collection, users, institutional staffs, and so on. Electronic Security in terms of systems is available with Electro Magnetic systems. Electronic Surveillance Cameras, Radio Frequency Identification System for so many services like attendance of the user, staff, physical staff of books and other resources. Earlier Electronic Security system was useful in so many countries. The institutions such as Industrial, Scientific Laboratories, Defense Lab, and Academic Information Foundations are the main user of Electronic Security Systems [09].

IV. SOME SECURITY SYSTEMS

Earlier, Security System was includes windows protection with locks, use of grill, guards, screen and door protection and use of dummy security devices and so on as far as Knowledge Hub is concerned. These are so many guidelines are already proposed and provided by some Information Foundation and Association such as American Library Association, Association of Colleges and Research Libraries and so on [10, 13]. In conventionally such proposal are comes with use of security officer, formation of security planning group, communication with PRO departments; like enforcement agencies and so on. However, apart from these, such Association are also proposed for use of video camera for safety of special material safety, archives, digital section and so on. But day's are gone, due to advancement of Information Technology today many electronic tools are using information foundation and similar organization such devices and systems are as follows.

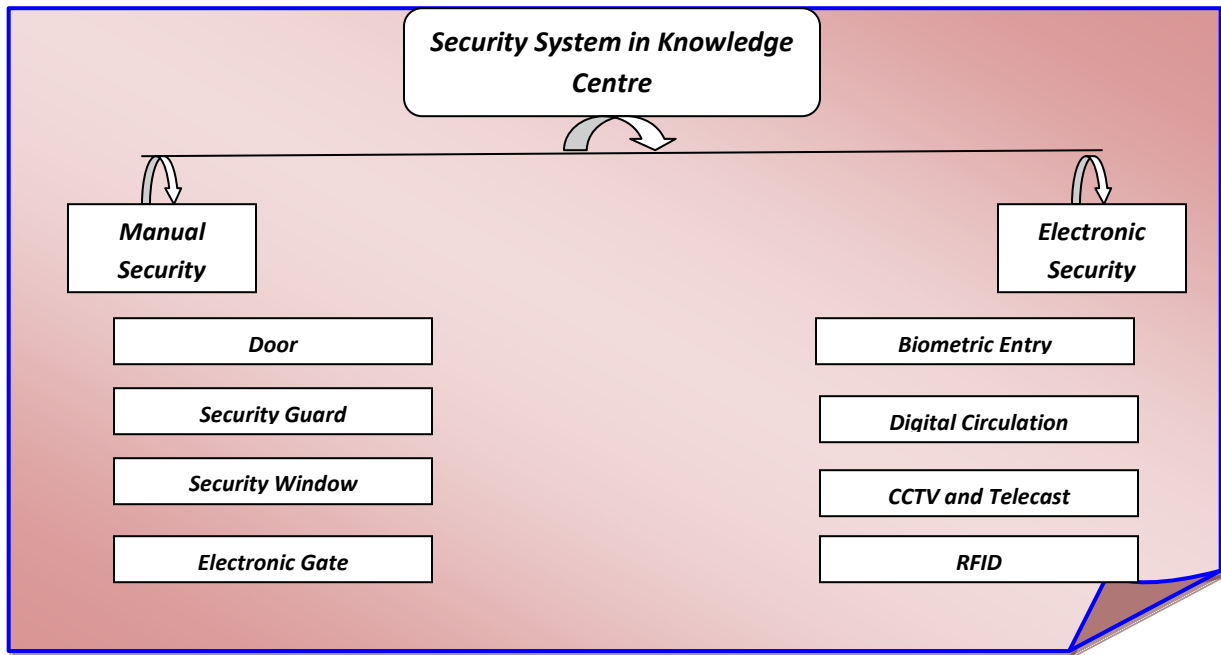


Fig: 1 Depicted possible and emerging security system in Knowledge Centre and similar organization

1. **Electro Magnetic System-** in such technology, a magnetic as well as iron containing strip added with adhesive layer is attach with several information centre material. The main advantage of this type of system is, it s possible to re use with very nominal cost. Still such facilities are popular in the western countries such as England, Finland and so on.
2. **Radio Frequency Identification-** RFID is another technology which is used in some places in the

information centre. It is useful to find out a particular product and keeping ledger in circulation during charging and discharging of books, and similar type of product. This is also helpful for inventorying and materials' handling such RFID is inbuilt with microchip and carry information of the collection or material and hence in RFID system one user can pick the material only within a particular distance and thus it helps from the losses of books and other gadgets.

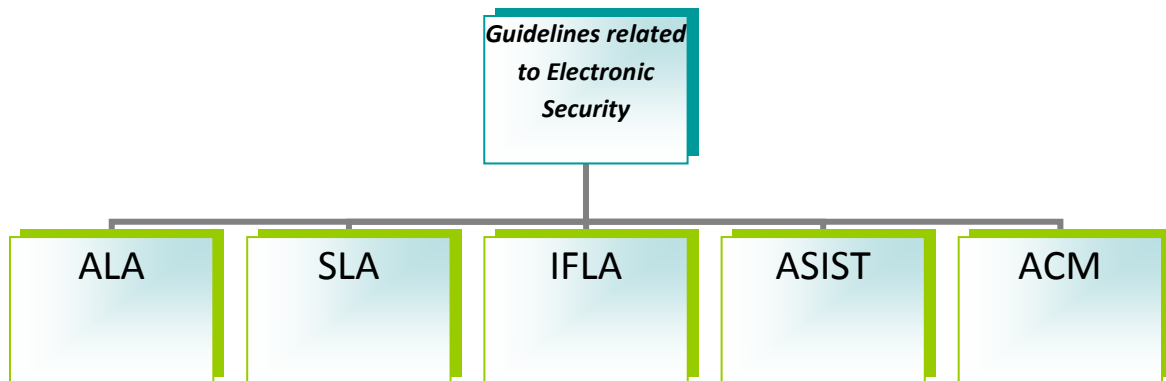


Fig. 2 Depicted organizations which are issues and informed about Electronic Security systems

V.SOME ELEMENTS AND COMPONENTS OF ELECTRONIC SYSTEM

As far as elements and components of Electronic Security System is concerned, it deals with so many components such as

1. Burglar Protection
2. Collection Security

3. Electronic Access Control

Video Material and Tool

1. Basically a burglar protection is comes with a sensor system to detect an instruction, alarms and notification of the affiliated council or authorities. Sensor may be a/ active, b/ passive, c/ covert, d/ visible and depending upon need these are uses[15, 16];

2. Detective Device is another important device which are useful in the information centre and similar type of information foundations. Virtually, such type devices are safe for magnetic media and come with audio/video alarm systems. However, in this Detective Device following two methods are mainly possible to use-
 - a. Electro Magnetic Detection;
 - b. Radio Frequency Identification.
3. Electronic Access Control is helpful to conventional access to the Information Centre and similar and central among the user and authorized people; this is also may be automatic unlocking of the door. Such as access card may be with Photo ID. In passive access cards, programmes are restricted with guard access and this one is inexpensive and software dependent.

4. Video System is another tool in which a CCTV is used to get information and recording. Such types of CCTV camera are designed with special technique and thus it is cheap to use and keep recording so many times. Virtually, such CCTV is also used in visitor, user and such CCTV is useful in circulation section, reading room, waiting room, internet section and so on. this type of vide system now a days are widely using in so many organizational information foundation and academic information foundation in developed countries and developing countries too.

This is helpful for future uses, managing overall administration smooth and healthy and also helpful to know about the misconduct of the user and staff too. Further such video systems are also helpful to identification of contemporary problems like- space, useful section and so on [17, 18].

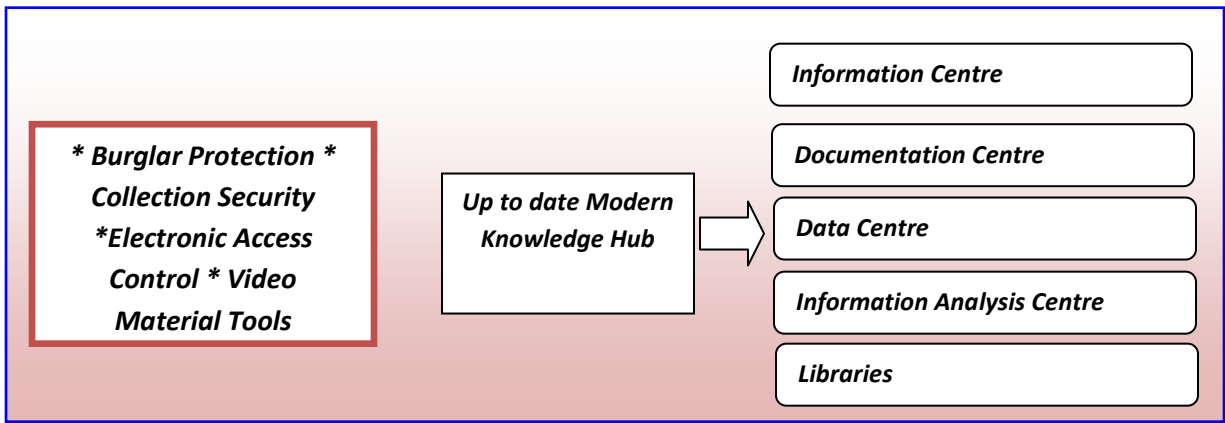


Fig: 3 Depicted Electronic Systems for knowledge dealing foundation

Such type of Electronic Security though comes with so many benefits but deals with some problem; but out of which maintenance and future cost are main burden.

4. Apart from private information centre, Governmental Information Centre may also choose such features for further development in Information Foundation sector.

VI.FINDINGS AND SUGGESTION

1. Electronic Security system is using around the world and comes with so many features and facilities;
2. Apart from industrial libraries and information centers Electronic Security system is also need for defense and scientific lab, documentation centre and similar one;
3. Out of so many Electronic Security systems RFID system is most important and comes with so many benefits such as minimum operation time, long life time, highly reliable, automated material handling, simple charging and discharging and so on;

VII.CONCLUSION

Technology is increasing day by day, the advancement of Information Technology and Computing changes the overall scenario of organization and institutions. Today's organizations are so many advanced and smarter. Information Foundations of various countries are pillar of information activities and real infrastructure building [18, 22]. Today information foundations are changing; their normal and general systems and services too. Thus, modern and up to date services such as RFID, video enable, electro magnetic system enable information foundation need to build for healthy and sophisticated information foundation designing according to the need.

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