

# EMERGING TECHNOLOGIES IN LIBRARIES & INFORMATION CENTERS

LISC-01403  
(Foundation –IV)



# Library Security Systems

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- According to Fischer and Green, ‘security implies a stable, relatively predictable environment in which an individual or group may pursue its ends without disruption or harm and without fear of such disturbance or injury’ (2004, p. 21). A traditional definition of security may be the provision of private services in the protection of people, information and assets for individual safety or community wellness (Craighead, 2003). In addition, private or commercial security may be considered as the provision of paid services in preventing undesirable, unauthorized or detrimental loss to an organization’s assets ( Post and Kingsbury, 1991 ).
- Simply safety means freedom from danger, protection from unauthorized access, loss avoidance, harm prevention, discount of long-term hazard created by way of unsuitable environmental conditions.

# Security Systems:

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- Library has a number of security systems from its establishments. It has differentiated in standard and cutting-edge systems. Modern structures had been made by means of technological support. Traditional structures are totally based on human.

## Types of Security Systems in Libraries

- Conventional or Manual security systems
  - Fire extinguisher & security equipments
  - ID cards and access authorization

## Security Systems:

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- Locks & Key system
- Security Clearance procedure
- Security guards employed to patrol
- Signature of every user (Gate Registration)

# Electronic security system

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## 3M exit detection

- Security Systems from 3M represent the world's leading security solution for libraries. The global leader in library security for over three decades, 3M Library Systems through the combination of Tattle-Tape™ Security Strips, innovative detection systems and circulation accessories – protect billions of individual items in thousands of libraries across the world.



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## Alarm systems

- An alarm device or system of alarm devices gives an audible, visual or other form of alarm signal about a problem or condition. Alarm devices are often outfitted with a siren.

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## Biometrics

- Biometric security is a security mechanism used to authenticate and provide access to a facility or system based on the automatic and instant verification of an individual's physical characteristics. Because biometric security evaluates an individual's bodily elements or biological data, it is the strongest and most foolproof physical security technique used for identity verification.

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## CCTV cameras

- Closed-Circuit TV (CCTV), additionally considered as video surveillance is the use of video cameras to transmit a signal to a particular place, on a limited set of monitors. An open-circuit gadget refers to a device that is focused at an indefinite wide variety of people, as in tv broadcasts. Closed-circuit systems, on the other hand, are designed to provide video to distinctive viewers. One closed-circuit gadget that is particularly designed for surveillance purposes is typically referred to as a closed-circuit television or CCTV system. two CCTV is used in a vast range of functions which consist of security, disaster prevention, electricity and manpower saving, income advertising and records services, manufacturing management, industrial measurement, scientific care, training and military fields.



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## Electronic Eye Detection

- An electric eye is a photo detector used for detecting obstruction of a light beam. An example is the door safety system used on garage door openers that use a light transmitter and receiver at the bottom of the door to prevent closing if there is any obstruction in the way that breaks the light beam.

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## Electronic Recording

- Electronic security system refers to any electronic equipment that may want to operate protection operations like surveillance, get entry to control, alarming or an intrusion manage to a facility or an location which uses a electricity from mains and also a electricity backup like battery etc.

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## RFID system

Radio-Frequency Identification (RFID) based totally access-control gadget permits solely accredited human beings to enter a particular place of an establishment. Authorised human beings are provided with special tags, the use of which they can get admission to that area. This RFID primarily based safety gadget is primarily based on micro controller AT89C52 and contains a RFID module, a LCD module for showing the status and a relay for opening the door and other library operations like check-out, check-in management.

## RFID (Cont...)

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Provision of self-service station is for checking out books one via one with the resource of the borrower besides any interference of library staff. The theft detection machine of the clever tags for that e book is deactivated to enable convenient passage from the protection gate. A protection device is made up by way of unique components; a safety computing device includes of bodily security, security measures and the human element.

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## Smart Card

- Smart cards provide computing and business systems the enormous benefit of portable and secure storage of data and value. At the same time, the integration of smart cards into your system introduces its own security management issues, as people access card data far and wide in a variety of applications.

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