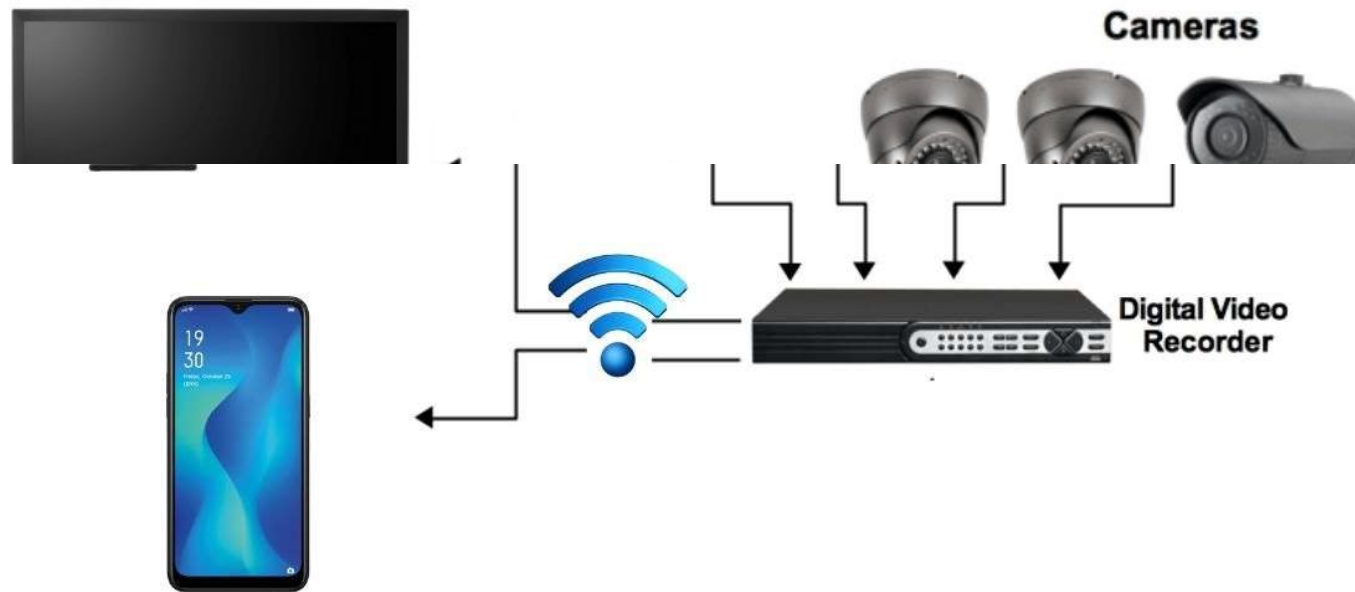# ICT Applications in Library Services

Unit 4
CCTV – Cameras, Lens, Housing and Mounts
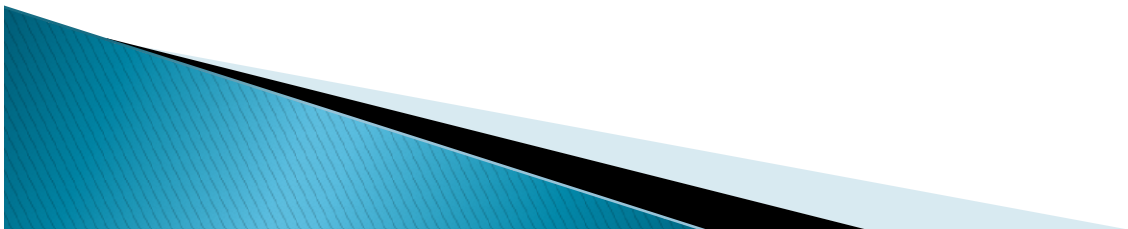
Presented By
Rashmi H.
Guest faculty,
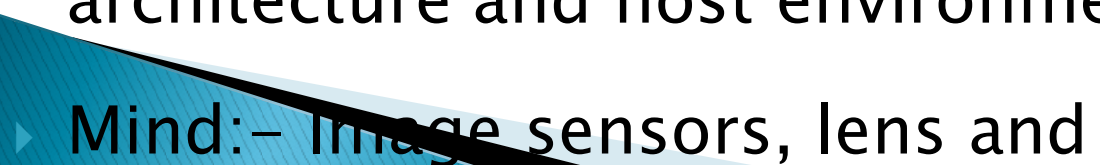Deptt. Of Library and Information Science,
MLSU, Udaipur

CCTV cameras work

Cameras

Digital Video Recorder

- **Components of CCTV systems**

- Cameras

- Lenses

- Housing and mounts

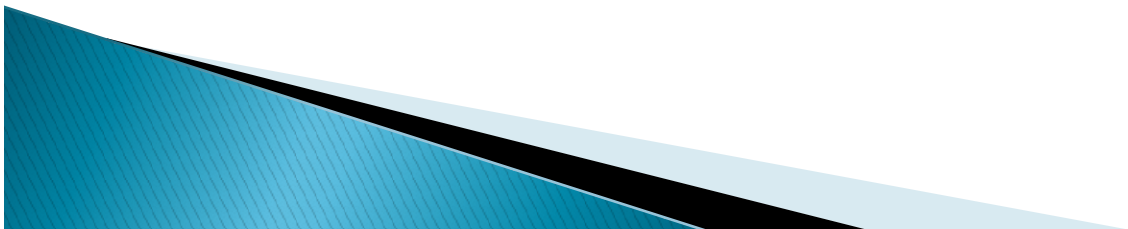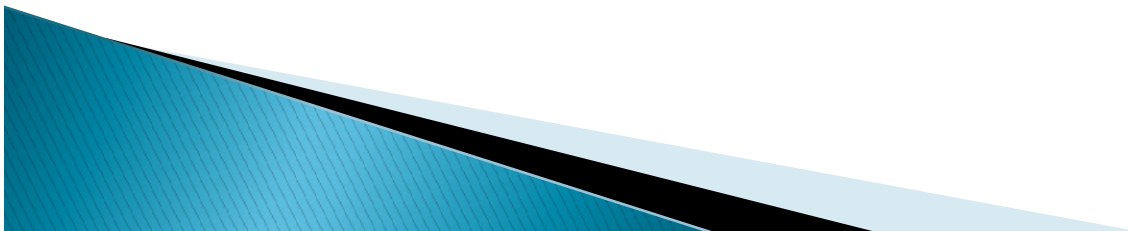- Switches and multiplexers

- Monitor

- Video recorders

- *Camera*

- Cameras are an essential component of any CCTV system. Matching the right CCTV camera to a particular application is increasingly complex due to rapid technological developments and a greater range of application.

- Effective camera selection requires detailed knowledge of the camera, application, supporting architecture and host environment.

- Mind:- Image sensors, lens and image processing.

- *Lenses*

- The lens on a CCTV camera is the first element in the imaging which consists of the lens, camera, transmission system, image management and analysis software and monitor.

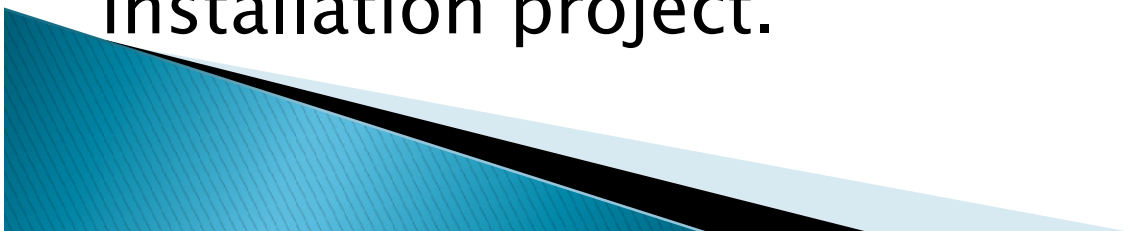- The lens focuses light onto the imaging sensor. A lens' role is to deliver an accurate image to the imaging sensor.

- Systems that require superior quality images start with lenses to produce a high quality image.

- Variables to consider when selecting a lens include the distance required to clearly focus on objects, size of the camera's image sensor and lighting conditions. Lenses are identified by this focal length, usually stated in millimeters.

- *Housing and Mounts*

- Part of designing and installing an effective CCTV system includes selection of the camera housings and mounts.

- Selecting CCTV housing and mounting hardware is directly related to the operational system requirements, which are developed during the design and procurement phases of a CCTV installation project.

- In any application, the housing and mounting hardware is selected on the basis of several criteria.

- Environmental conditions, which includes temperatures, weather conditions and humidity.

- Architectural considerations

- Installation and other special considerations that match the installed materials to the system's intended use and planned maintenance.

THANKS