

# SYSTEM TECHNOLOGIES – Computer Management

Extend computer management issues regarding safeguarding against threats:

- ✓ Safety and security
  - ✓ Human error (GIGO, accidents)
- ✓ Threats
  - ✓ *Physical access*
    - ✓ *Theft*
    - ✓ *Flash drives and portable media*
  - ✓ Hardware failure
    - ✓ *Storage*
    - ✓ *Power*



**education**

Department: Education  
**GAUTENG PROVINCE**

# SYSTEM TECHNOLOGIES – Computer Management

- \* **SAFETY AND SECURITY**

- \* **Human error**

- \* **GIGO**

- Garbage In, Garbage Out*

- Invalid input ALLOWED leads to invalid output*

- Insure verification and validation of input*

- \* **Accidents**

- Spillage on laptops / keyboards*

- Accidental formatting of HDD*

- Unplug power supply*

# SYSTEM TECHNOLOGIES – Computer Management

- \* **THREATS**

- \* ***Physical access***

- \* ***Theft***

- Hardware – PC, laptops, portable media*

- Software – Applications lost with hardware theft*

- Data – Irreplaceable when generated over years*

- \* ***Flash drives and portable media***

- Misused by:*

- transferring malware*

- running key loggers*

- stealing data from hard drives or network*

# SYSTEM TECHNOLOGIES – Computer Management

- \* **HARDWARE FAILURE**

- \* **Storage**

- \* **HDD**

*Stored information and OS cannot be accessed*

*Reasons for failure:*

*Heat – inadequate ventilation*

*Physical damage – dropping pc can cause a head crash*

*Power surge – data loss*

*Water damage – spilling water on motherboard*

*Corrupting files – Improper shutdown of pc*

*Human error – Accidental deletion*

- \* **Power**

*Loss of data as a result of:*

*Data in RAM not stored*

*Corruption of data when writing to storage is interrupted*

*Power surges can cause damage to hardware*