**Assignment One**

**Due date: Sunday, January 11, 2023**

This assignment is prepared to give you a chance to broaden the theoretical ideas how the basic mechanism of cathode ray tube and liquid crystal display works. You are supposed to complete within 6 pages.

* **Explain the basic mechanism of CRT:**
  + How does CRT works
  + Construction of CRT
    - Some important parts of the CRT are Electrons Gun, Deflection Plate Assembly, Fluorescent Screen, Glass Envelope
  + CRT displays
    - Random scan devices
    - Raster scan devices
  + Types of CRT
    - Monochrome CRTs
    - Color CRTs
    - Beam
  + Applications of CRT
* **Explain the basic mechanism of LCD:**
  + How does LCD works
  + Construction of LCD
  + How LCD uses Liquid Crystals & Polarized Light
  + Types of LCD
  + Applications of LCD

This is individual assignment collaborations between different students are not expected.