

ELECTRICAL MEASUREMENT & MEASURING INSTRUMENTS

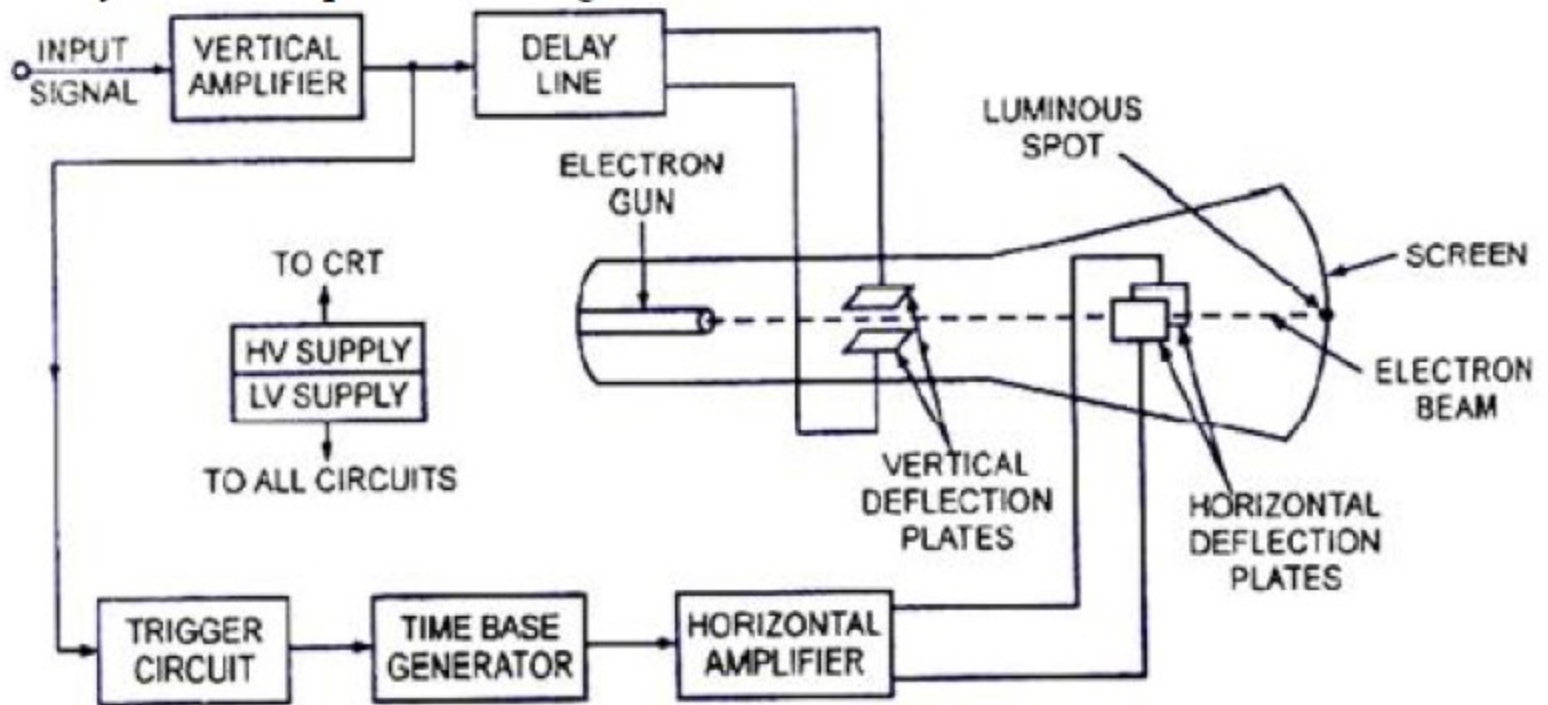
UNIT 5 Part (ii)

Cathode Ray Oscilloscope

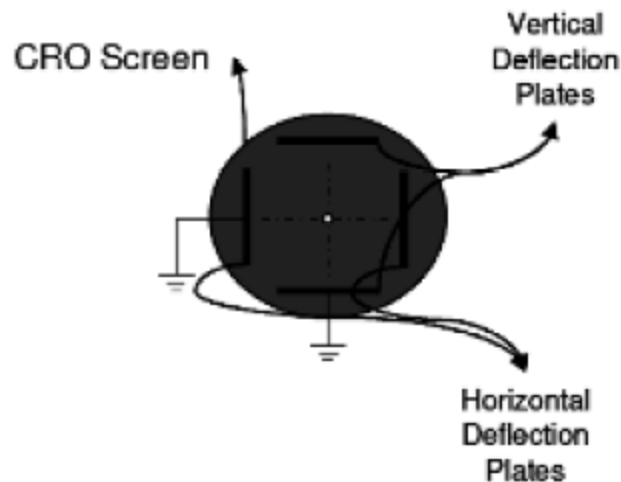
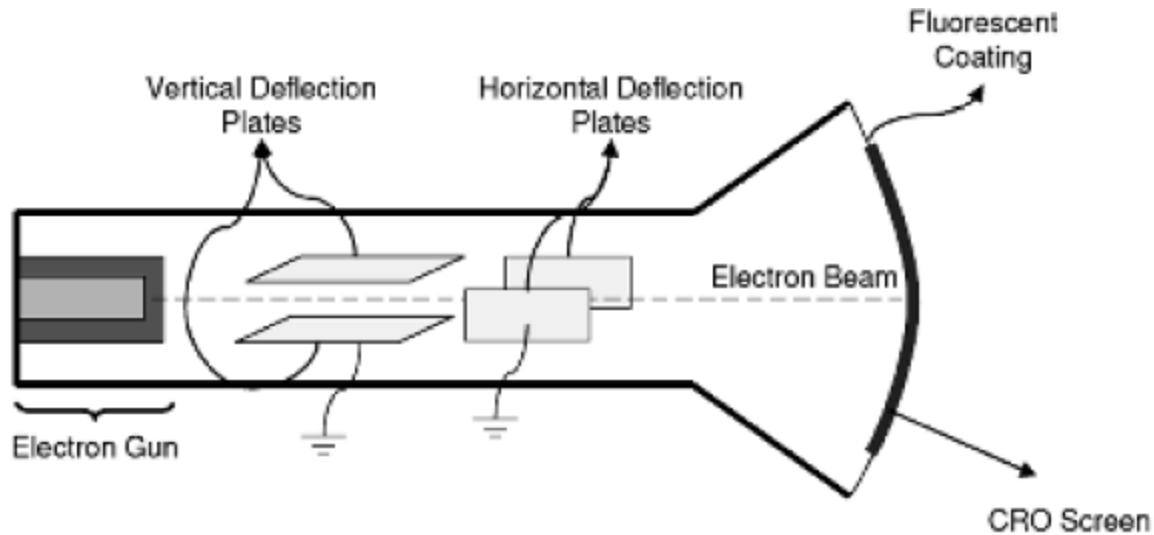
Oscilloscope

- ***Voltage sensing*** electronic instrument that is used to visualize certain voltage waveforms.
- It can display the variation of a voltage waveform in time on the oscilloscope's screen.

Cathode Ray Oscilloscope Block diagram



Structure and main components of a cathode ray tube (CRT)



CRO

- Electron beam produced by the electron gun deflected by the deflection plates
- Directed onto the fluorescent coating of the CRO screen,
- which produces a visible light spot on the face plane of the oscilloscope screen.

Construction: The CRT is composed of two main parts:

- Electron Gun
- Deflection System