Principle of un spectroscopy UV Spectroscopy obeys the Boer-Lambet law, which States that when a beam of monochometer light is passed through a falution of an absorbing Substance the grate of decrease of intensity of reduction with thickness of the absorbing Solution is proportional to the incident gradiation as well as the Concentration of the Solution. The Expression of Beer Lambert law is A = log(To/T) = Eclwhere A = absorbance In = intensity of light incident upon Sample Cell I = intensity of light leaving Sample Cell. C = molar Concentration of Solute L= length of the Semple E= molor absorptively Clear that greater The from the low it is pumber of molecules Capable of absorbing light of a given wavelength, the greater the extent of light absorption.

Instrumentation and working Source - > monochromal > Reference Detector > Amplifier Light Source: Tungeten filament lamps and HydrogenDeuterium lamps are most widely used
Honochromolor: The light beam is further divided
into two beams.

Sample and Reprence cells: One beam passes through
The Sample Solution and the other through the Juserence. Detector: one photocell preceives the beam from Sample cell and Second detector preceives the beam from preference

Ampliper: is to amplify the Sugnals many lines

So we can get clear and precordable Signals.

The amplifies is connected to the computer which

Stores all the data generated and procluces the

Spectrum of the desirged Compound. Applications -- Detection of functional groups. Detection of extent of Conjugation Delérmination of lonfigurations of geometrical Isomes Delérmination of purily of a Substance