

Spectroscopy

For
B.Sc –III Chemistry(H/S)
Physical Chemistry
Paper-V
Lecture-01

By
Dr. Supriya kumari
Sher Shah College , Sasaram
V.K.S.U,Ara
supriyachemu@gmail.com

Spectroscopy

Contents:

- **Spectroscopy**
- **Basis principles of different types of absorption**
- **Idea of IR spectroscopy**
- **UV-vis spectroscopy**

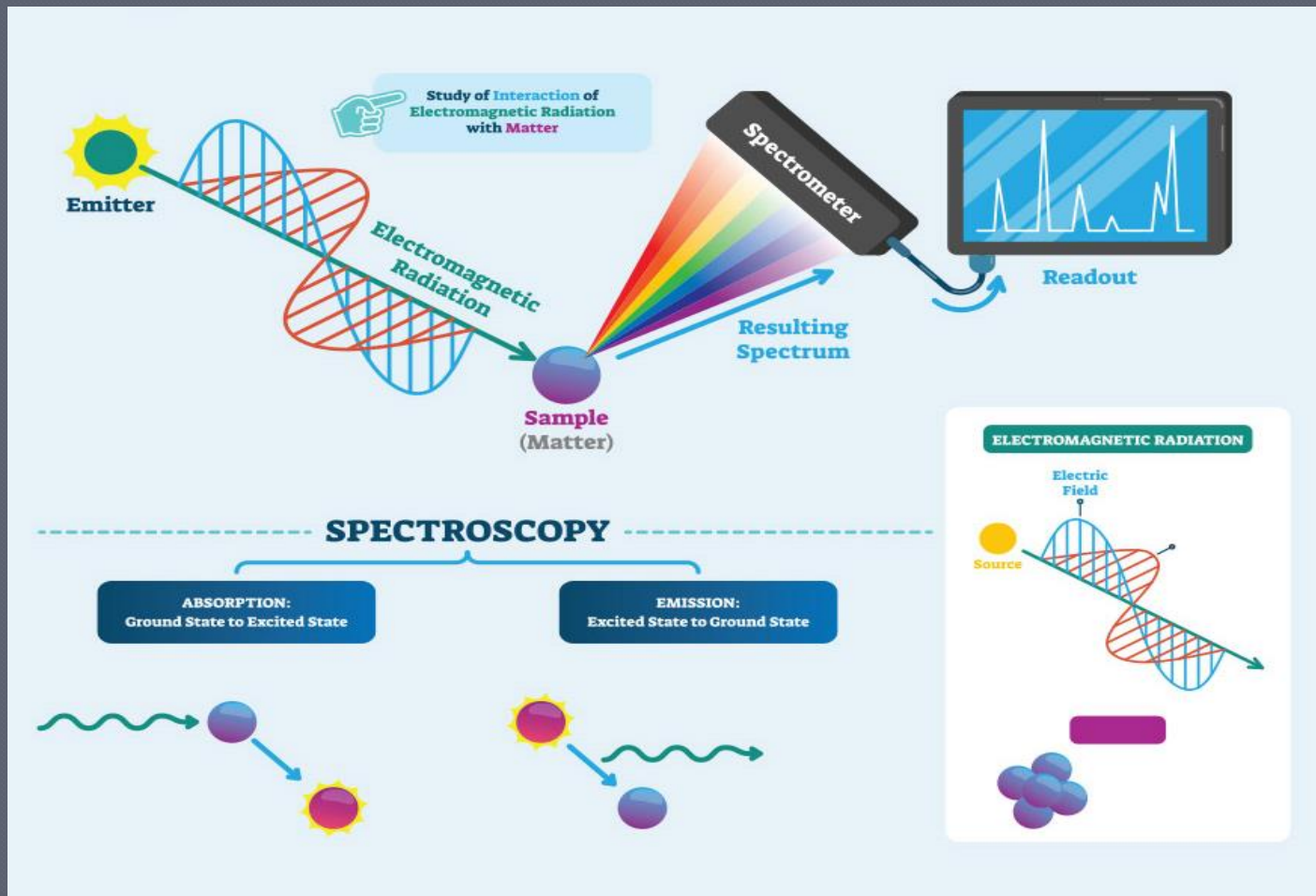
Spectroscopy

Spectroscopy is the study of the interaction between matter and electromagnetic radiation.

spectroscopy originated through the study of visible light dispersed according to its wavelength, by a prism.

It uses the techniques of radiation to obtain information on the structure and properties of matter.

What is Spectroscopy



TYPES OF ABSORPTION SPECTROSCOPY

The most common types of waves measured by absorption spectroscopy are

Infrared

Visible

Ultraviolet (UV)

Atomic

X-ray

Each spectrophotometer works using the same techniques.

Spectrophotometers are categorized according to the type of wave being measured.