

DEPARTMENT OF CHEMISTRY

GDC GANDERBAL

Date: 05-12-2022

My College My Pride

Activity: Practical demonstration of Lambert Beer's law using UV-Vis Spectrophotometer

UV-Vis Spectrophotometer was used to study Absorbance (A) vs Concentration. Various concentrations of KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$ were prepared and absorbance of each solution was determined using distilled water as reference. Then a plot of absorbance vs concentration for the solutions was prepared. Straight lines passing through origin clearly demonstrated that absorbance is a function of concentration and is directly proportional to it. Students themselves conducted the experiment after necessary instructions were given to them. The purpose of conducting the experiment was to give the students an idea about various parameters so that they could easily conduct the experiments that are included in the prescribed syllabus.

