

The Physical Chemistry Lab course primarily concentrates to develop in students to seek answers to the problems such as:

- **How matter behaves on a molecular and atomic level**
- **How chemical reactions occur**
- **Understanding chemical properties and describing their behavior using theories of physics and mathematical computations.**
- **To have a strong curiosity about how things work at the atomic level and enjoy working with lab instrumentation and machines.**

This course provides broad training to students to work in a variety of scientific careers, such as:

- ❖ **Careers in analytical chemistry**
- ❖ **Emerging fields of materials science and molecular modeling**

Further the introduction of instrumental basic laboratory techniques such as the use and maintenance of potentiometers, pH meters, conductivity meters, viscometers, polarimeter and some advanced instruments such as Flouro-spectrophotometer, UV-Visible spectrophotometer etc., are given due importance.

Experiments in areas of Physical Chemistry performed by students during the course are:

- ❖ **Spectroscopy (UV-visible and Fluorescence Spectrophotometry)**
- ❖ **Thermodynamics**
- ❖ **Kinetics**
- ❖ **Polarimetry**
- ❖ **Viscometry**
- ❖ **Data interpretation using different softwares**
- ❖ **Report preparation and presentation**