



## **DCTs Dhempe College of Arts and Science Miramar, Goa**

### **Central Facilities: Research Laboratory**

The Research Laboratory at DCT's Dhempe College of Arts & Science is well-equipped with advanced scientific instruments to support research activities for students and faculty members. These instruments have been procured through grants from the **Rashtriya Uchchatar Shiksha Abhiyan (RUSA)** and **Dempo Charities Trust, Goa**, to enhance research capabilities and promote scientific excellence.

### **Research Instruments Available**

1. UV-Vis Spectrophotometer (UV-2600, Shimadzu)
2. FTIR Spectrophotometer (IR Affinity-1S, Shimadzu)
3. Atomic Absorption Spectrometer (AA-6880, Shimadzu)
4. Rotary Vacuum Evaporator (Equiptron)
5. Gas Chromatography System (GC-2014, Shimadzu)
6. Digital Analytical Balance (Vibra)
7. High-Performance Liquid Chromatography (HPLC) System — Shimadzu LC-20AD Prominence Liquid Chromatograph with SPD-20A Prominence UV-Vis Detector, along with a Multifunctional Ultrasonic Cleaner (Athena Sonicator)
8. Karl Fischer Titrator (KAFI+, Labindia)
9. UV-Visible Photo Reactor (Lelesil Innovative Systems, Thane, Maharashtra)
10. Digital Polarimeter (CDP-001, Contech)

### **Sample Analysis Services**

The Research Laboratory also offers **sample analysis services** to students and faculty members from other institutions **at a nominal fee**. This initiative aims to promote collaborative research and support advanced scientific investigations beyond our institution.

For more details or to avail the services, please contact:

[principal@dhempecollege.edu.in](mailto:principal@dhempecollege.edu.in)



**UV-Visible Spectrophotometer – SHIMADZU – UV-2600**



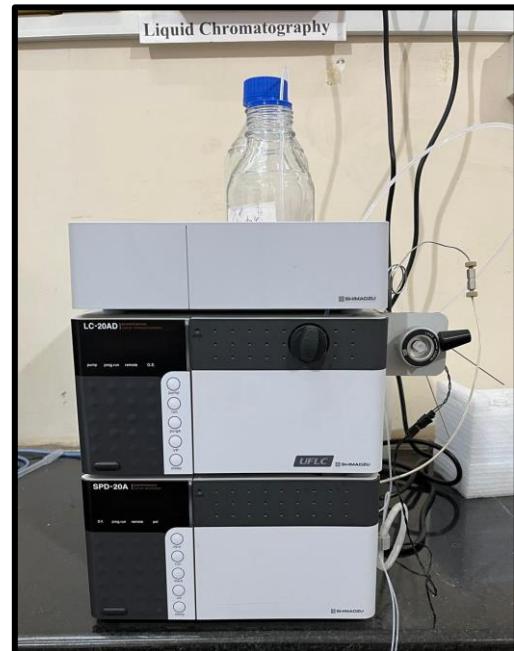
**Fourier Transform Infrared Spectrophotometer – IRAffinity – 1S – SHIMADZU**



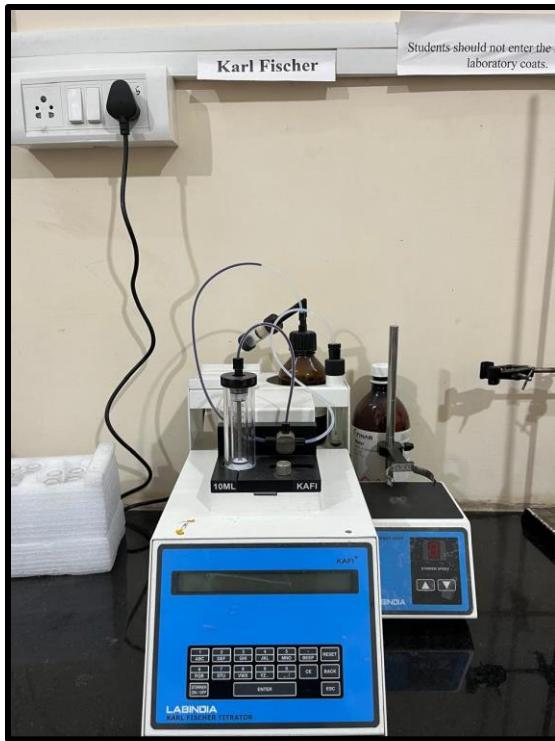
**Atomic Absorption Spectrophotometer – AA -6880 – SHIMADZU**



**Gas Chromatograph – GC-2014- SHIMADZU**



**Liquid Chromatograph - Shimadzu**



**Karl Fischer Titrator**



**Photochemical Reactor**



**Rotary Vacuum Evaporator**



**Central Facility**