Digital calorimeter

A digital colorimeter measures the absorbance of light at specific wavelengths, allowing it to determine the concentration of known solutes in solutions and ensure color consistency across industries.

A digital calorimeter (specifically a digital colorimeter) is a laboratory instrument used to measure the absorbance or concentration of colored solutions, typically within a 400-700 nm range. It provides quick, precise digital readings (LED/LCD) and often features automatic zeroing, with a standard sample volume of 1 ml. These devices are essential in clinical, agricultural, and pharmaceutical labs

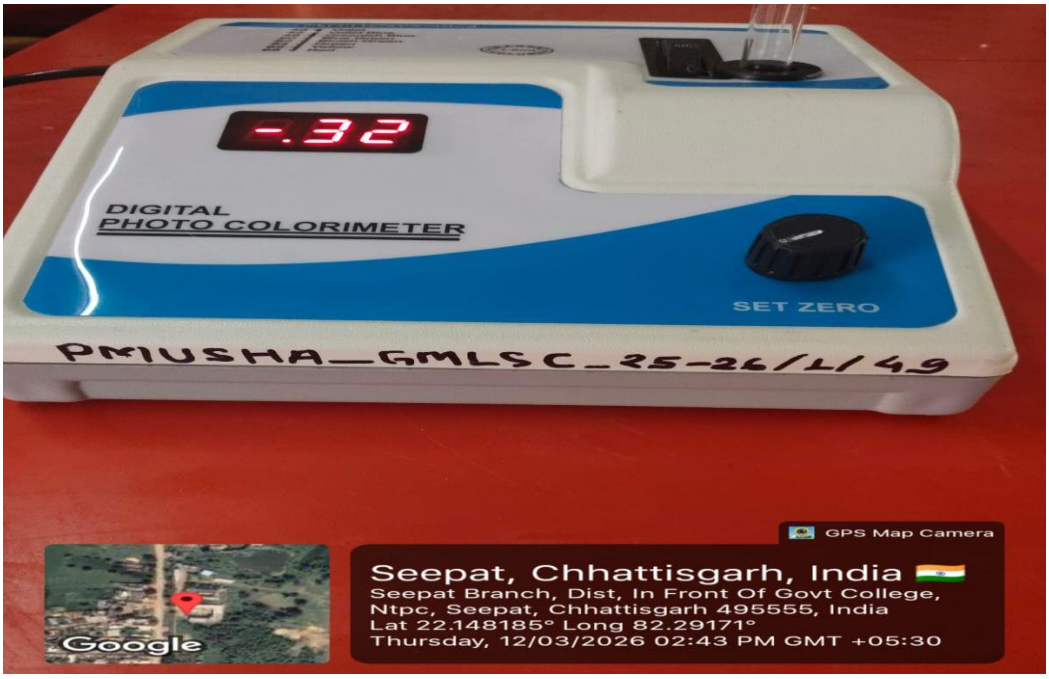
Components and Functionality:

- **Cuvette Chamber:** Holds the sample container.
- **Light Source:** Provides consistent light, often with automatic Photo Calorimeter Digital shutter systems to increase component life.
- **Filters:** Used to isolate specific wavelengths for analysis.

APPLICATION

1.It is widely used in environmental testing, clinical diagnostics, food analysis, and pharmaceutical manufacturing

2.Testing water quality by analyzing pollutant levels like chloride, fluoride, and cyanide in drinkingwater and waste treatment plants.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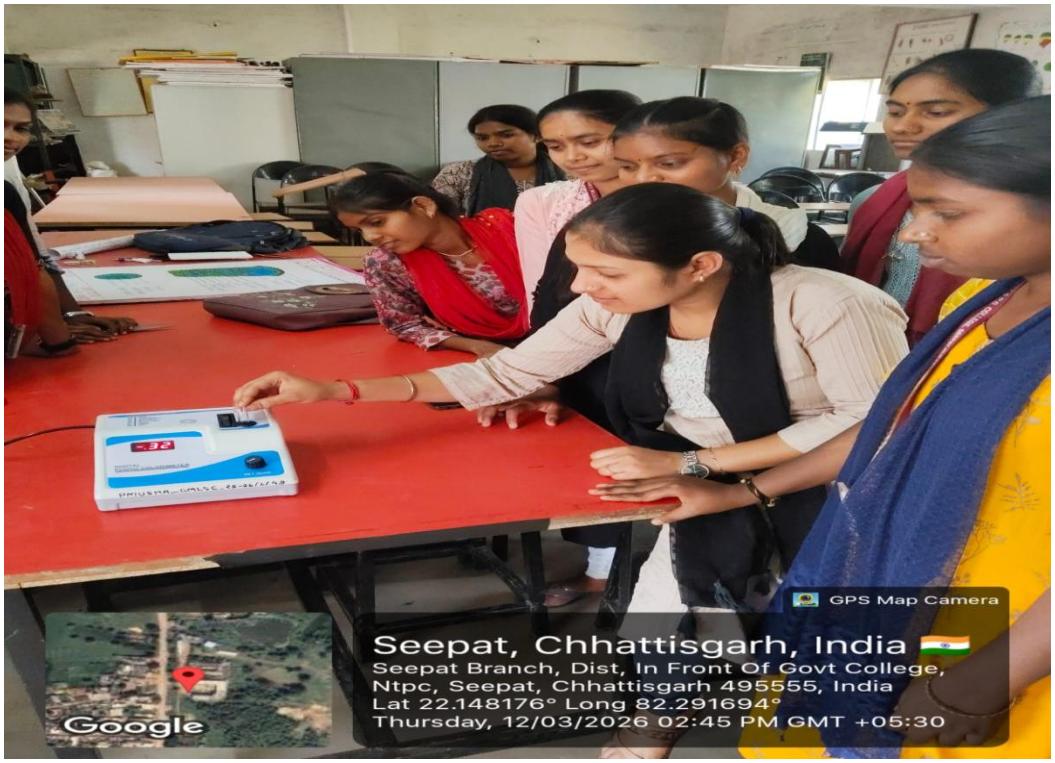
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