

Event Name : “Instrumentation workshop on Hematology, Spectrophotometric & Electrophoretic Techniques”

Date : 22.01.2026

Organized by : Biochem Nexus & PG and Research Department of Biochemistry

Academic Year : 2025 -2026

Report :

The **Biochem Nexus Club** and the **PG & Research Department of Biochemistry**, Auxilium College (Autonomous), Vellore, organized an **Instrumentation Workshop on Hematology, Spectrophotometric & Electrophoretic Techniques** on **22 January 2026**, from **11.00 AM to 12.30 PM**, at the **Biochemistry Laboratory**.

Dr. G. Abi Beulah illustrated the **principles and applications of the UV spectrophotometer**, highlighting its importance in quantitative analysis and clinical diagnostics. **Dr. M.D. Lakshmi Priya** and **Dr. D. Madhumalathi** demonstrated the **technique of SDS–PAGE** and its wide-ranging applications in protein separation and analysis for both **UG and PG students**. **Dr. B. Lavanya** and **Dr. C. Suganthi** described the **principle of Agarose gel electrophoresis**, along with the working of the **UV transilluminator**, emphasizing its applications in nucleic acid analysis.

The **Soxhlet phytochemical extraction technique** was clearly explained by **Dr. S. Divya**, focusing on its role in the extraction of bioactive compounds from plant materials. **Dr. B. Ramya** provided a detailed explanation of the **principle, calibration, and applications of the pH meter**, underlining its significance in laboratory and research settings. **Ms. P. Vishnupriya** explained the **Neubauer chamber**, its principle, and its uses in cell counting and hematological analysis.

The workshop was **highly interactive and informative**, with active student participation throughout the sessions. The participants gained valuable **hands-on exposure, practical knowledge of instrument handling, and a better understanding of laboratory applications**. The program concluded successfully, making it a **meaningful and enriching academic experience** for the students.