

Clinical Chemistry and Biochemistry Teaching Laboratory (121)

This laboratory is located on the first floor of the department building and contains a large number of spectrophotometers, centrifuges, pH meters, and workspace for the required experiments. The lab has a capacity of 20 students per practical session.



This laboratory includes the practical teaching of the following subjects:

1. **Biochemistry**: Students learn how to determine the concentrations of various chemicals in biological samples and understand the theoretical principles behind the techniques used in the analysis of biochemical compounds through titration (acid-base titration) and spectrophotometry.
2. **Clinical Chemistry**: This course aims to provide students with the practical knowledge and technical skills necessary to analyze biological samples such as blood, urine, and other bodily fluids) using chemical techniques to analyze biochemical substances. The course focuses on practical applications used in medical diagnostics, helping students understand the role of chemistry in determining patients' health status. The list of experiments includes electrolytes (Na^+ , K^+ , Cl^- , and Ca^{++}), lipid profile (TG, total cholesterol, HDL cholesterol), iron, TIBC, glucose, HbA1C, total plasma proteins, albumin, uric acid, and more.

