

Clinical Practice II (Hematology and Blood Banking) **(Hospital/Blood Bank Based)**

Students will be posted in hospital/blood bank with hematology and blood banking facilities for 8 weeks at the end of course (i.e. in third year) for clinical practice. For this, students must be posted in all related Departments/Section of diagnostic laboratory and blood bank on rotation basis.

Course Description

This clinical practice program is designed to help the students to apply the comprehensive knowledge and skills learned in the training institute on actual situations. The program is offered after completing twelve weeks institution-based training in third year.

Course Objectives

At the end of the course, the students will be able to:

- Perform all routine and some special laboratory procedures independently and accurately as mentioned below, and
- Build confidence on laboratory procedures.

Placement schedule

The whole class of students will be divided into five groups and placed for the following sections of the pathology department.

S.N.	Practical Areas	Duration
1.	Hematology and Blood Banking Lab	9 Weeks
	Total Duration	9 Weeks

Skills to be performed during the clinical practice

Each student should perform the following skills independently and accurately during the clinical practice.

A. Hematology and Blood banking

- Total leucocyte count (TLC)
- Differential leucocyte count (DLC)
- Erythrocyte sedimentation rate (ESR)
- Packed cell volume (PCV)
- Hemoglobin (HB)
- Bleeding time (BT)
- Clotting Time (CT)
- Prothrombin Time (PT)
- Activated Partial thromboplastin time (APTT)
- Platelet Count
- RBC Count

- Reticulocyte Count
- Blood grouping (ABO)
- Rh typing
- Cross matching
- Coombs tests
- RBC indices (MCV, MCH & MCHC)
- Hemoparasites (M.P, MF)

Students should be present in the departments at least 90% of the allotted days to be eligible to sit in the final examination. Students will have to perform all tests under the supervision of departmental staff and may be allowed to perform tests independently if the supervisor finds them perfect. Students should keep their practical record (logbook) signed periodically by their supervisor/instructor at the end of the posting in each subject.