



Course Code	PS02CBIT55	Title of the Course	LAB-I
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	<ol style="list-style-type: none"> 1. To learn differentiate and count blood cells. 2. To learn fundamental Immunological tests like immune electrophoresis, ELISA, Rocket Immuno electrophoresis, etc. 3. To learn separation of proteins by electrophoresis and western blotting.
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PS02CBIT55 (Lab 2A)

1. Total count of RBC and WBC.
2. Differential count of WBC.
3. To determine Blood group of given sample
4. To study the technique of immune-electrophoresis for determination of the concentration of antigen in unknown sample.
5. To study the immuno-diffusion technique by single radial immuno-diffusion.
6. To learn the technique of Dot ELISA for the detection of an antigen.
7. Latex agglutination test
8. RA —Rheumatoid Arthritis test
9. RPR —Rapid Plasma Ragine Test
10. Ouchterlony Double Diffusion test
11. Rocket Immuno-electrophoresis test
12. Counter current Immuno-electrophoresis test
13. Immuno-electrophoresis test (SDS-PAGE)
14. Western blotting test (SDS-PAGE)

PS02CBIT55 (Lab 2B)

Practicals related to elective papers

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%





Course Outcomes: Having completed this course, the learner will be able to

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| 1. | Carry out experiments with blood samples. |
| 2. | Carry out fundamentals immunology testing. |

References:

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| 1 | Thimmaiah S. K. (2012). Standad Methods of Biochemical Analysis. Kalyani Publishes, New Delhi, India. |
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