BSP410 BIOCHEMICAL TECHNIQUES LAB

Course Outcomes:

After successful completion of the course, students will be able to:

- CO 1. Separate the mixtures by planar and column chromatographic techniques.
- CO 2. Undertake quality analyses required in food industry by identifying additives, vitamins, preservatives, proteins, sugars and aminoacids.
- CO 3. Use UV-V is spectrophotometry forestimation.
- CO 4. Operate flame photometry.
- CO 5. Perform electrophoretic techniques for separation and determination of molecular weight.
- CO 6. Perform immune-diffusion techniques and ELISA for detecting presence and quality antigens.
- CO 7. Use centrifugation for separation of molecules.
- 1. Ascending, descending and circular paper chromatography for separation of amino acids/carbohydrates
- 2. TLC of amino acids (1D and 2D)/carbohydrates
- 3. UV-Visible Spectrophotometry-verification of Beer Lambert's law
- 4. Flame photometry and its application in the estimation of serum, calcium, potassium and lithium and sodium.
- 5. **HPLC(Demonstration)**
- 6. Gel electrophoresis- native and SDS-PAGE and estimation of molecular weight of Proteins
- 7. ELISA for quantification of anantigen.
- 8. Immunodiffusion
- 9. Centrifuge use and application of centrifugations techniques for separation
- 10. Separation by filtration technology

