BSP460 METABOLISM AND BIOENERGETICS

Course Outcomes:

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

CO 1. Perform spectrophotometric estimation of various metabolites.
CO 2. Diagnose some of the metabolic diseases through biochemical tests.
CO 3. Quantify vitamins and phenolics in plant samples.
CO 4. Calculate standard free energy change, redox potential, and mitochondrial respiration.

1. Spectrophotometric estimation of metabolites: serum protein, sugar, creatinine, urea, uric acid
2. Colorimetric analysis of vitamins, ascorbic acid etc.,
3. Estimation of plant phenolics
4. Tests to measure glycosuria, proteinuria etc
5. Calculations in Bioenergetics: standard free energy change, redox potential, mitochondrial respiration etc