BCC 101-P FUNDAMENTALS IN BIOCHEMISTRY [P]

Practical Course Credit: 1 Contact Hours: 30

- 1. Estimation of amino acids (ala, tyr, trp) and protein by spectroscopy.
- 2. Comparison of colorimetric methods for protein estimation Biuret, Folin-Ciocalteu methods.
- 3. Comparison of methods for reducing sugar estimation –DNSA, Glucose Oxidase
- 4. Estimation of total sugar by anthrone and phenol-sulphuric acid methods
- 5. Estimation of lipid by acid-dichromate method
- 6. Estimation of nucleic acid by direct spectroscopy.

Reference Books (Composite list for theory and practicals)

- 1. Lehninger, A., Cox, M., & Nelson, D. L., Lehninger Principles of Biochemistry edited by Freeman, W. H. & Company
- 2. Stryer, L., Biochemistry. Freeman, W. H. & Company
- 3. Conn,E., Stumpf,P., Bruening,G.&Doi,R. H. Outlines of Biochemistry by John Wiley & Sons.
- 4. Voet, D., Voet, J.G. & Pratt, C. W. Principles of Biochemistry John Wiley & Sons
- 5. Bernard L. Oser. Hawk's Physiological Chemistry edited by McGraw-Hill Book Company
- 6. Harper, H. A., Physiological Chemistry. University Medical Publishers
- 7. Mu,P, &Plummer,D.T., Introduction to Practical Biochemistry. Tata McGraw-Hill Education.
- 8. Sadasivam, S. & Manickam, A. Biochemical Methods. Publisher, New Age International (P) Limited
- 9. Jayaraman, J., Laboratory Manual in Biochemistry. John Wiley & Sons, Limited