BCC 102-P ENZYMOLOGY [P]

Practical Course Credit: 1

Contact Hours: 30

- 1. Assay of enzyme activity, rate of reaction.
- 2. Determination of specific activity.
- 3. Determination of optimal pH for enzyme activity.
- 4. Determination of optimal temperature for enzyme activity.
- 5. Determination of Km, Vmax.
- 6. Purification of enzyme: salting out; dialysis; gel filtration; determination of fold purification, percentage recovery of protein.
- 7. Molecular weight determination by SDS-PAGE.

Reference Books (Composite list for theory and practicals)

- 1. Dixon & Webb., Enzymology
- 2. Harper, H., Review of Physiological Chemistry, Marusan Co
- 3. Stryer, L., Freeman, W.H., Biochemistry San Francisco.
- 4. Lehninger, A.L., Nelson, D.L., Cox, M.M. Principles of Biochemistry, Worth Publishers, New York.
- 5. Price & Stevens. Fundamentals of Enzymology.
- 6. Guyton & Hall. Textbook of Medical Physiology
- 8. Plummer, D.T., An introduction to practical biochemistry
- 9. Sadasivam, S. & Manickam A., Biochemical Methods. Publisher, New Age International (P) Limited.
- 10. Jayaraman J. Laboratory Manual in Biochemistry, John Wiley & Sons, Limited, Australia.
- 11. Sambrook, J., Fritsch, E.F., Maniatis, T. 1989. Molecular cloning: a laboratory manual, 2nd edn. Cold Spring Harbor Laboratory Press, New York.