



Code	Subject Title	Cr. Hrs	Semester
ZOOL-202	Zoology Lab-III (Biochemistry)	1	III
Year	Discipline		
2	Botany, Zoology, Chemistry-I		

Biochemistry

1. Tests for detection of carbohydrates in alkaline medium.
2. Tests for detection of carbohydrates in acidic medium.
3. Test to demonstrate relative instability of glycosidic linkage in carbohydrates.
4. Tests for detection of disaccharides.
5. Detection of Non-reducing sugars in the presence of reducing sugars.
6. Demonstration of acid Hydrolysis of Polysaccharide.
7. Biochemical tests for detection of different amino acids.
8. Separation of various protein fractions by precipitation method.
9. Demonstration of different solubility of lipids in various solvents.
10. Various qualitative Tests for detection of lipids.
11. Demonstration of tests for detection of Nucleic Acids (DNA and RNA)

Environmental Biology-I & Evolution I:

1. Community analysis through different sampling techniques (quadrat, Transect).
2. Population dynamics of grasshoppers.
3. Adaptive features of animals in relation to food and environment.
4. Food chain studies through analysis of gut contents of locally available animals.

Books Recommended:

1. Plummer, David T., 1990. An Introduction to Practical Biochemistry, 4th Edition McGraw-Hill Book Company, London.
2. Wilson, K & Walker, J., 1994. Practical Biochemistry: Principles and Techniques, 4th Edition, Cambridge University Press.
3. Alexander, R.R. and Griffiths, J.M. 1993. Basic biochemical methods. Wiley – Liss, New York.
4. Sawhney, S. K. and Singh, R., 2006. Introductory Practical Biochemistry, 2nd Edition, Narosa Publishing House.
5. Oser, B. L., (Latest Edition). Hawk's Physiological Chemistry, McGraw Hill Book Company.