



Code	Subject Title	Cr. Hrs	Semester
ZOOL-102	Zoology Lab-I (Invertebrate Diversity)	1	I
Year	Discipline		
1	Botany, Zoology, Chemistry-I		

**Invertebrate Diversity:**

- 1) Study of Euglena, Amoeba, Entamoeba, Plasmodium, Trypanosoma, Paramecium as representative of animal like protists. (Prepared slides).
- 2) Study of sponges and their various body forms.
- 3) Study of principal representative classes of phylum Coelentrata.
- 4) Study of principal representative classes of phylum Platyhelminthes.
- 5) Study of representative of phylum Rotifera, phylum Nematoda.
- 6) Study of principal representative classes of phylum Mollusca.
- 7) Study of principal representative classes of phylum Annelida.
- 8) Study of principal representative classes of groups of phylum Arthropoda.
- 9) Brief notes on medical/economic importance of the following:  
Silkworm, Citrus butterfly.

**Genetics:**

Mitosis and Meiosis slide preparation.  
 Analysis of Blood groups and Barr bodies.  
 Drosophila morphology and study of giant chromosomes.  
 Human pedigree analysis.  
 Human pedigree analysis problems.  
 Tossing of coins and probability analysis.  
 Study of same Human Traits.  
 Numerical problems related with different topics.

**Books Recommended:**

1. Miller, S.A., 2002. GENERAL ZOOLOGY LABORATORY MANUAL. 5th Edition (International) Singapore: McGraw Hill.
2. Hickman, C.P. and Kats, H.L., 2000. LABORATORY STUDIES IN INTEGRATED PRINCIPLES OF ZOOLOGY. Singapore: McGraw Hill.