



Code	Subject Title	Cr. Hrs	Semester
ZOOL-204	Zoology Lab-IV (Physiology)	1	IV
Year	Discipline		
2	Botany, Zoology, Chemistry-I		

Physiology

Comparative adaptations to the particular function in different systems such as nervous system, receptors, endocrine and reproductive system, circulatory system, respiratory system, excretory and nutritive systems in various animal groups will be demonstrated with preserved tissues, organs and organ systems.

Cell Biology:

Laboratory safety: Physical, Chemical and biological hazards.

Total Erythrocyte counting using haemocytometer.

TLC (total Leukocyte count) using haemocytometer.

Identification of blood cells in normal blood smear and DLC (differential leukocyte count.)

Culture and staining of bacteria and yeast.

Detection and quantitative determination of chromosomal DNA and RNA.

Nucleic acid staining using Methyl green and pyronin.

Study of histological sections of tissues to study various types of cells.

Books Recommended

1. EXPERIMENTS IN PHYSIOLOGY, 2002. Tharp, G.D. McMillan Publishing Company, New York.
2. ZOOLOGY, 1999 & 2006. Miller, S.A. and Harley, J.B. WCB/McGraw Hill, New York