

PRACTICAL -IV
ANIMAL PHYSIOLOGY AND IMMUNOLOGY

Semester	Subject Code	Category	Practical		Theory	Practical	Credits
			Hrs/ week	Total Hours/ Semester			
IV	21CPZO41	Core Practical-IV	4	60	Nil	60	4

COURSE OBJECTIVES:

- The Students learns the skills of performing experiments and analyzing the results .
- To understand and analyse the principle and application of instruments.
- To analyse the estimation of haemoglobin and ESR.
- To Understand ,apply and evaluate the concepts of immunological techniques

ANIMAL PHYSIOLOGY

45 Hours

1. Estimation of RQ in Fish with reference to Light and temperature.
2. Salt loss and salt gain in fish
3. Estimation of Proteins, Carbohydrates and Lipids in the tissues of Fish
4. Estimation of Blood Urea and Cholesterol.
5. Blood Clotting Time, Bleeding Time, Rouleaux Formation, Preparation of Haemin Crystal.
6. Principle and Application of Sphygmomanometer, Kymograph, Electrophoresis, Haemoglobinometer, ESR.
7. Estimation of Haemoglobin and ESR.

IMMUNOLOGY

15 Hours

1. Haemagglutination - Quantitative analysis - haemagglutination titration-Rh factor
2. Preparation of Antigen - RBC - Demonstration.
3. Ouchterlony technique - Demonstration. (Ouchterlony double diffusion).
4. Immuno electrophoresis - Demonstration.
5. Study and Identification of Slides showing Primary and Secondary lymphoid organs.

SYLLABUS DESIGNERS

Dr D.Sasikala, Assistant Professor & HOD
 Dr.V.Kiruthiga, Assistant Professor
 Dr V.Rekha, Assistant Professor
 DrA.Vinodhini, Assistant Professor
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