

COURSES
BSP 506 ANIMAL PHYSIOLOGY LAB

After successful completion of the course, students will be able to:

- CO 1. Perform experiments to estimate enzyme activity and understand factors affecting enzyme activity
- CO 2. Perform experiments on hormonal control of reproductive biology.
- CO 3. Perform experiments in muscle physiology and osmoregulation.
- CO 4. Conduct qualitative tests for excretory products and demonstrate active transport

1. **Gastrointestinal function**–

Factors affecting enzyme activities in digestion of foodstuffs.

1.2 Quantitative estimation of Enzyme (amylase) activity.

2. **Neuroendocrinology**–

Effect of hormones on blood glucose in rats.

Study of estrous cycle in mice

Study of sperm count, sperm morphology and sperm motility

3. **Muscle Physiology**-

3.1 Histochemical detection of SDH activity in red and white muscle fibres.

4. Osmoregulation-

Estimation of Fluid balance in an animal.

Osmotic relationship in animals at the level of cell as well as entire organism.

5. Excretion-

Qualitative tests for excretory products.

Demonstration of active transport.