**Physiology (B) (PHY. 222)**

**Overall aims of the Course:**

By the end of the course the student should be able to

• Gain the latest knowledge of animal physiology

• Revise the fundamental principles and mechanisms that govern body function in mammals.

• Understand the theoretical and practical teaching of physiological mechanisms for maintaining homeostasis in animals (ruminants, poultry and fish).

• Develop f the necessary skills for the students, to understand, explains, and interprets the knowledge of veterinary physiology, and integrate it with animal production and clinical sciences.

**Course contents:**

* Rumen digestion: Major differences between glandular and fermentative digestion, Reticulorumen motility, Esophageal groove reflex, microfauna and microflora
* Bird's physiology: Comparatives studies of birds in comparison to mammals, Immunology, Digestion, Respiration
* Reproduction in domestic fowl.
* Fish physiology: Classification of fish and locomotors system, digestive system in fish, Respiratory system in fish, Circulatory system in fish