

# ANPH 504 : Veterinary Pharmacology I

This course describes the basic principles of pharmacology and the importance of pharmacokinetic and pharmacodynamic features of drugs and lays the foundation for the clinical application of veterinary medicinal products. The significance of correlating pharmacology with physiology provides a firm understanding of the subject concepts. This course aims to develop student's knowledge about the rational use of therapeutic drugs considering species variations and the drug's pharmacokinetic and pharmacodynamic features.

Special emphasis will be given to the clinical use of drugs in both healthy and diseased animals, thereby analyzing species specific sensitivities and adverse/side-effects. In this course, students will be exposed to the basic principles of pharmacokinetics and pharmacodynamics that underpin drug use. Classes of drugs covered include, autonomic drugs, anesthetic agents, analgesic drugs, anticonvulsant drugs and anti-inflammatory drugs.

Further, the therapeutic significance of hemostatic/ anticoagulant drugs, anabolic steroids and the important segments of a prescription are detailed. With the clinical use of these drugs in mind, their characteristics and prophylactic/therapeutic efficacy are explained, emphasizing the importance of ensuring the food safety and environmental bio-security.

**Core Course**

**Credits 3**