

## **VMD-512 Zoo/Wild Animal Breeding, Nutrition, Management and Healthcare 1+1**

### **THEORY**

Taxonomy of various genera of wild/zoo animals of India along with their descriptions. Ethology of wild life species. Basic principles of habitat and housing of various classes of wild and zoo animals. Population dynamics of wild animals, effective population size of wild animals captivity/zoo/natural habitats. Planned breeding of wild animals. Controlled breeding and assisted reproduction. Breeding for conservation of wild animals. Feeding habits, feed and feeding schedules of zoo animals. Nutrient requirements of wild animals. Diet formulation and feeding of various age groups, sick and geriatric animals. Restrain, capture, handling, physical examination and transport of wild and zoo animals. Principles of anaesthesia, anaesthetics, chemicals of restraining, common surgicals interventions. Capture myopathy. Principles of zoo hygiene, public health problems arising from zoos. Prevention, control and treatment of infectious, parasitic, nutritional and metabolic diseases in zoo and wild animals. Acts and Rules related to Zoo and wild animals. National and international organizations and institutions interlinked to wild and zoo animals - role and functioning.

### **PRACTICAL**

Visit of nearby wildlife sanctuary/zoo/wild animal centres study the care and management, restraint examinations, administration of medicines etc. in zoo animals. To study the implementation of various Acts and Rules related to Zoo animals care and management. Postmortem examination of wild and zoo animals. Handling, processing and interpretation of pathological materials from zoo and wild animals. Attending to common surgical intervention on zoo wild animals. Planning for balanced feeding, Diet charts, preparation of balanced diet for new born, growing and sick animals as oral and intravenous feeds. Preparation of modified diet under selected conditions. Hygienic preparation, preservation and storage of foods.

**(This course shall be taught jointly with the Departments of Livestock Production Management, Animal Nutrition, Animal Genetics and Breeding, Veterinary Pathology, and Veterinary Surgery and Radiology).**