

## Zoology Course 4.01

### APPLIED ZOOLOGY

**3 CREDITS**

#### Objectives

- To study the insects of economic importance.
- To understand the importance of breeding animals and their uses.
- To learn how piggery and poultry farms are maintained for commercial purposes.

#### **UNIT I: STUDY OF INSECTS OF ECONOMIC IMPORTANCE (15 lectures)**

- **Honey Bee:** Social life, communication, life history, apiculture and economic importance
- **Lac Insect:** Life cycle, Lac culture and composition and uses of lac
- **Silk moth:** Life history, sericulture and economic importance
- **Termite:** Social life, Life cycle, damage caused and control measures.
- **Aphids:** Life history and control measures
- **Rice weevil:** Life cycle and control measures

#### **UNIT II: ANIMAL HUSBANDRY AND DAIRY SCIENCE (15 lectures)**

- Present status of animal husbandry in India.
- Goat farming: Importance of goat farming (Milk, Meat, Skin, Hair & manure), Various breeds – Jamnapari, Beetal, Black Bengal and Toggenberg. Nutrition, prevention and treatment of diseases
- Cattle farming: Classification of breeds (Milch, dual purpose and drought), various breeds of cattle – Sahiwal, Khillari, Brown-Swiss, Murrah, Jafferabadi, Jersey, Holstein Breeding and management of buffaloes
- Dairy science: Composition of milk, Milk products and Methods of preservation of milk.
- Vermiculture: Scope, methodology and importance

### **UNIT III: PIGGERY AND POULTRY**

**(15 lectures)**

- Poultry: Definition, Nomenclature and breeds of fowl, Housing and equipments, Hatching of eggs (Natural and Artificial hatching), Raising of broilers and Poultry diseases
- Emu farming
- Piggery: Scope for pig farming and its contribution to national economy, Pig farming, Housing and Pig meat (pork).