## DISCIPLINE SPECIFIC ELECTIVE COURSE BZO: E502 ECONOMIC ZOOLOGY (Credits: Theory-4)

SEMESTER - V

Sericulture

Apiculture (Bee-keeping)

Introduction, Varieties of honey bees and Bee pasturage; Setting up an apiary: Langstroth's/Newton's hive, bee veil, brood and storage chambers, iron frames and comb sheets, drone excluder, rearing equipments, handling of bees, artificial diet; Economy

Unit 1

Unit 2

Introduction, Different types of silk and silkworms in India; Rearing of Bombyx mori – Rearing racks and trays, Chawki rearing, bed cleaning, montages, harvesting of cocoons; Silk reeling techniques and their management

Lac Culture Introduction, Life History of *Tachardia lacca*, Host plants for Lac cultivation, Cultivation of lac, Different types of Lacs and Lac production, Lac industries in India

## Unit 4

Unit 3

Livestock Technology Introduction, Dairy Industry, Poultry industry, Piggery and their production and economics

#### Unit 5

Aquaculture

Introduction, Pearl culture, Prawn culture, and Fresh water fish culture, and their production and economics

## SUGGESTED READINGS

1. Prost, P. J. (1962). Apiculture. Oxford and IBH, New Delhi.

2. Sericulture, FAO Manual of Sericulture.

3. Hafez, E. S. E. (1962). Reproduction in Farm Animals, Lea and Fabiger Publishers.

4. Srivastava, C. B. L. (1999). Fishery Science and Indian Fisheries. Kitab Mahal

publications, India.

5. Sardar Singh, Beekeeping in India, Indian council of Apricultural Bernet

Delhijun JIIIVII BISH, Apiculture, ICAR Publication.

7. Knobil, E. and Neill, J. D. (2006). *The Physiology of Reproduction*, Vol. 2, Elsevier Publishers.

8. Dunham R. A. (2004). Aquaculture and Fisheries Biotechnology - Genetic

- Approaches. CABI publications, U.K.

# LECTURES: 60