



Code	Subject Title	Cr. Hrs	Semester
ZOOL-406	Lab. Economic Zoology	1	VII
Year	Discipline		
4	Zoology		

Course Contents

1. Apiculture

Preparing to handle honeybee colonies; Inspection of bees, organization within the colony; Examination of colonies for disease and other problems: Equipment making and using top-bar hives, frame hives, frames, smokers, and other equipment; Nailing/wiring of frames and fixing combs; Queen rearing; preparation of queen cells, grafting larvae, Management: supplemental feeding, making candy, uniting colonies; collecting pollen propolis; Honey harvesting and preparing for marketing; Harvesting and possessing bees wax; and seasonal management.

2. Sericulture

Rearing techniques for breeding of the silkworm *Bombyx mori*.

Field visit to demonstration site in a house-hold in a near by locality across Changa Manga.

3. Aquaculture

Identification of important species of Fish and their natural enemies.

Study visit to fish Hatchery, Nursery ponds, Stocking ponds and commercial fish breeding farms

Recommended Books

- Ahmad, R. and Muzaffar, N., 1987. Rearing of Silkworm. Misc. Pub. Pak. Agric. Res. Council, pp. 53.
- Akhtar, M. and Muzaffar, N., 2008. Introduction to Apiculture, Department of Zoology, Punjab University Press, 36 pp.
- Anon, 1986. The Hive and the Honeybee. Dadant & Sons. Illinois, USA, pp. 740.
- Anon, 1999. FAO Bulletins on Sericulture Nos. 1 & 2. FAO Office, Rome, Italy.
- Blackiston, H., 2001. Beekeeping for Dummies. Wiley Publishing, Inc. Indiana, USA, pp. 303.
- Shukla, G.S. and Upadhyay, V.B., 1997. Economic Zoology, 3rd Ed. Rastogi Publications, Meerut, India, pp. 369.
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