

**Aims & Objectives:**

This course will provide the practical and market oriented view of the zoology. In this course students will learn about the economic importance of animals, their various diseases, commercial value and their byproducts. Course will also cover some aspects to devise some basic information regarding the existence of pivotal microorganisms in environment likely to cause diseases in human

**Course Contents**

**Zoology for economic uplift of commons:** Household pests; different groups of pests, their biology and control

**Apiculture:** different species of bees, colonial organization and division of labor among bees, honey, bees wax, enemies of bees,

**Sericulture;** species of silk worm, life cycle of silk worm, science of sericulture, production and recovery of cocoon, post cocoon production, types of silk, uses of silk,

**Fish Culture:** Fresh water aquaculture, Feasibility of ornamental fishery as cottage industry, culture of gold fish, guppy, dwarf gourami, tiger barb, beta splendens and angel fish, their breeding and management in aquaria.

**Pet bird Farming:** Feasibility as cottage industry, quail, brown partridge, ring necked pheasant, silver pheasant, peacock, ostrich and parakeet farming.

**Pearl Industry;** pearl formation, collection of oyster, rearing of oyster, insertion of nucleus, harvesting of pearl, problems of pearl industry, artificial pearl.

**Poultry industry;** Selecting a breed, different types of birds/ brooders, feeding and management of bird stock, selection of good layers, collection, preservation and marketing of eggs, poultry manure, diseases of poultry and their prevention

**Practical:** Visits to industries and culturing facilities available in Pakistan

**Recommended Books:**

1. Hart, P. J. B. and J. D. Reynolds. 2008. Handbook of Fish Biology and Fisheries, Volume 2. Blackwell Science Ltd., New York USA.
2. Meade, J.W. 1998. Aquaculture Management. Chapman and Hall Inc., New York, USA.
3. Pillay, T.V.R., 1999. Principles and Practices. Fishing News Books, London, UK.
4. Ramakrishnan, K. 1996. Economics of Fisheries Management. Daya Publishing House, New Delhi, India.
5. Yadav, M. 2003. Economic Zoology. Discovery Publishing House, New Delhi, India.