

Alternative to MOOC Course for M.SC. in ZOOLOGY

Course Title	Economic Zoology
Credit Hours	3 CH
Marks	100
Semester	IV

Unit 1: Bee-keeping (Apiculture)

Different species of India Honey Bees, Bee hive - Langstroth's/Newton's hive, Social organization of honey bee, Life history, Behaviour patterns, Science of Bee keeping (Apiculture), Chemical composition of honey, Economic importance of honey.

Unit 2: Silk and Silk Production (Sericulture)

Species of silkworms, Biology of Bombyx mori, Sericulture, Disease of silkworms, Types of silk, Silk production in India, Economic importance of silk.

Unit 3: Aquaculture

Fish culture, Breeding types. Techniques of culture. Induced spawning or artificial breeding, Maintenance of nursery ponds, Requirement of carps culture, Food of culturable fishes, Breeding habits of cultured carp fishes, Culturing ponds, Fish preservation.

Unit 4: Poultry Farming


Breeds of fowls, Exotic breeds, Indigenous breeds, Breeding and rearing, Mating systems, Mating methods, Rearing techniques, Brooding, Poultry production in India, Poultry diseases.

TEXT BOOKS

1. Tomar, B.S. Introduction to Economic Zoology. Emkay Publisher.
2. T.V.R. Pillay (Author), M.N. Kutty (2011) Aquaculture: Principles and Practices, Wiley India Pvt Ltd; Second edition
3. Singh, D., Singh, S.K. Poultry production and management. Rama Publishing House.
4. Sathe, T.V. Fundamentals of Bee Keeping. Daya Publishing House.
5. Shewale, V.S. Sericulture – Present and Future. Book Saga Publications.

SUGGESTED READINGS

1. Dhyan Singh Bisht, Apiculture, ICAR Publication.
2. Dunham RA (2004) Aquaculture and Fisheries Biotechnology – Genetic Approaches. CABI publications, U.K.
3. Hafez ESE (1962) Reproduction in Farm Animals. Lea and Fabiger Publishers.
4. Knobil E and Neill JD (2006) The Physiology of Reproduction. Vol.2. Elsevier Publishers, USA.
5. Prost PJ (1962) Apiculture. Oxford and IBH, New Delhi.
6. Singh S. Beekeeping in India, Indian council of Agricultural Research, New Delhi.


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