

SEC
SERICULTURE

(Credits 3)

Unit 1:

Sericulture: definition, history and present status; silk route; types of silkworms; Distribution and races; exotic and indigenous races; Mulberry and non-mulberry sericulture.
Life cycle of *Bombyx mori*; Structure of silk gland and secretion of silk.

Unit 3:

Selection of mulberry variety and establishment of mulberry garden.
Rearing house and rearing appliances; disinfectants: Formalin, bleaching powder, RKO.
Silkworm rearing technology: early age and late age rearing.
Types of mountages; spinning, harvesting and storage of cocoons.
Prospects of sericulture in India: sericulture industry in different states, employment, potential in mulberry and non-mulberry sericulture.

Unit 3:

Pests of silkworm: Uzi fly, dermestid beetles and vertebrates.
Pathogenesis of silkworm diseases: protozoan, viral, fungal and bacterial.
Control and prevention of pests and diseases.

SUGGESTED READINGS:

- **Anson, K. 2024.** Sericulture: A beginner's guide to the sericulture process, techniques, and best practices.
- **Kumar, N.S., Singh, H. and Saha, A.K. 2014.** A Textbook on Silkworm Rearing Technology. Dominant Publishers & Distributors (P) Ltd. (1 January 2014).
- **Krishnaswamy, S. 1986.** Improved Method of Rearing Young age silkworm; reprinted CSB, Bangalore.