

Course Code	Course Name	Credits
26ZY952	SERICULTURE	04

Course Objectives

- To understand the principles and importance of sericulture.
- To study the biology and rearing of silkworms.
- To develop knowledge on silk production and processing.
- To understand diseases and management of silkworms.
- To enhance entrepreneurial skills in sericulture.

Learning Outcomes

- Explain the importance of sericulture.
- Identify different species of silkworms.
- Demonstrate silkworm rearing techniques.
- Analyze silk production and processing methods.
- Apply sericulture techniques commercially.

Unit 1 - Introduction to Sericulture (12 Hrs.)

History, scope and importance; species of silkworms; mulberry cultivation.

Unit 2 - Biology of Silkworms (12 Hrs.)

Morphology, anatomy and life cycle; physiology and nutrition.

Unit 3 - Silkworm Rearing (12 Hrs.)

Rearing techniques; environmental requirements; seasonal management.

Unit 4 - Silk Production and Processing (12 Hrs.)

Cocoon harvesting; silk reeling and processing; silk industry.

Unit 5 - Diseases and Commercial Aspects (12 Hrs.)

Diseases and pests of silkworms; prevention and control; marketing and entrepreneurship.

Reference Books:

1. Ganga, G. (2018). Handbook of Sericulture. Oxford and IBH.
2. Krishnaswami, S. (2017). Sericulture Manual. FAO.
3. Sengupta, K. (2019). Silkworm Rearing. APH Publishing.
4. Atwal, A.S. (2017). Agricultural Entomology. Kalyani Publishers.
5. Pedigo, L.P. (2018). Entomology and Pest Management. Waveland Press.

Websites and eLearning Sources:

1. <https://www.icar.org.in/>
2. <https://www.fao.org/>
3. <https://www.easybiologyclass.com/>

