

GUJARAT UNIVERSITY
SKILL ENHANCEMENT COURSES
B.SC. ZOOLOGY - SEMESTER III
SEC - 236 (2 CREDITS)
(SERICULTURE)

Unit-I SERICULTURE

- Introduction.
- Classification of *Bombyx mori*.
- Habits and Habitat, External features and Life cycle of *Bombyx mori*.
- Introduction to different species of silkworms used for sericulture.
- Sericulture industry :
 - Requirements and appliances
 - Rearing of silkworm : Grainage management
 - Stifling, reeling and spinning
 - Diseases of silkworm
- Chemistry and uses of silk.
- Sericulture in India

Unit-II Practical

- Study of classification of Mulberry Silkworm.
- To study external features of egg, larva, pupa and adult (male and female)
- Different stages of life cycle of *Bombyx mori*.
- Some important species of silkworms used for sericulture.
- To study requirements and appliances for silkworm rearing.
- Brief study of Grainage management.
- Brief study of post cocoon processing (Stifling, reeling and spinning)
- To study of silkworm diseases and its management.
- Chemical composition and uses of silk.
- Indian silk industry & functioning of central silk board

Reference books:

1. Arthropoda, R. L. Kotpal, Rastogi Publications, Meerut.
2. Economic Zoology, G. S. Shukla and V. B. Upadhyay, Rastogi Publications, Meerut.
3. Economic and Applied Entomology, Kumar and Nigam, Emkay Pub., Delhi.