



Maharashtra Shikshan Samiti,  
**Maharashtra Mahavidyalaya, Nilanga**

Academic Year 

2022-23
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Department of Zoology

**Add On/ Certificate Course Syllabus**

Title : Sericulture

Duration : 30 Hrs.

Marks : 50

**Course Objectives :**

1. Study the cultivation of mulberry plant, silk worm; identify and mulberry diseases.
2. Acquire skill to carry out silk worm rearing and post cocoon processing.
3. Study silkworm disease, their control and prevention.

**Course Outcomes :**

1. Ability to cultivate mulberry plant and silk worm, identify and manage mulberry diseases.
2. Properly carry out silk worm rearing and post- cocoon processing.
3. Identify and manage silkworm diseases, their control and prevention.



## Course Content

### **Module I :**

**(10 Hours )**

#### **Introduction of Sericulture**

1. History and scope of sericulture, present status of Sericulture in India.
2. Types of silkworm – Mulberry, Tasar, Eri and Muga silkworm.  
Systematic position morphology, life cycle of silkworm.
3. Silk worm rearing-
  - 3.1. Prerequisite for silkworm rearing.
  - 3.2. Silkworm Rearing Equipments.
  - 3.3. Role of Environmental factors in rearing.

### **Module II :**

**(10 Hours)**

#### **Pest and diseases**

1. Introduction and classification of different types of silkworm diseases.
2. Pest of silkworm: Uzi fly, dermestid beetles and vertebrates,  
Pathogenesis of silkworm diseases: Protozoan, viral, fungal and bacterial,  
control and prevention of pest and diseases.
3. **Sericulture Economics and Marketing-**
  - 3.1. Economics of egg production : Expenditure and income.
  - 3.2. Economics of silkworm rearing: Investment and returns.
  - 3.3. Economics of silk reeling (per kg raw silk): cost and returns for different types of reeling establishments.

### **Module III :**

**( 5 Hours)**

1. **Practical** – Identification of different types of silkworm, morphology of eggs, larva, Pupa of different silkworm types.
2. **Practical** – Estimation of moisture Content of mulberry leaves and chawki rearing, Determination of mulberry leaf dryage in the rearing bed.



**Module IV :**

**(5 Hours)**

1. **Practical-** Identification of different silkworm diseases and method of their disposal
2. **Practical -**Identification of major silkworm pests.

**Prescribed Text Books / Recommended Books :**

1. Manual on Sericulture; Food and Agriculture Organisation, Rome 1976
2. Applied Zoology – Saras publication
3. Handbook Of Practical Sericulture S.R.Ullal and M.N. Narasimhanna CSB, Bangalore.
4. Silkworm Rearing and Diseases of Silkworm, 1956,Ptd,By Director of Ptg., Stn & Pub. Govt. Press, Bangalore.

**Scheme of Evaluation**

Q.1.Multiple choice Question -25

Credit -1 (25 points)

Q.2. Prcatical Test

Credit -1(25 points)

Presentation / group discussion / oral test

1. Oral Test.
2. Presntation.

Credit- 2( 50 points)



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course co ordinato