

<b>101</b>	<b>SERICULTURE AND ITS PROSPECTS</b>	<b>SEC0210103</b>	<b>3</b>	<b>40-60</b>
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## **SERICULTURE AND ITS PROSPECTS**

(Total: 3 credits)

### **THEORY**

**CREDITS: 2**

#### **UNIT-I: AN INTRODUCTION TO SERICULTURE**

**5**

Mulberry/Non-Mulberry: Origin/History and distribution, Varieties of silk, Types of silkworms, Propagation: Cutting – Layering of host plant.

#### **UNIT- II: BIOLOGY OFSILK WORMS**

**6**

Life cycle of Mulberry, Eri, Muga and Tasar silk worm, Structure of Silk gland and nature of silk.

#### **UNIT- III: REARING HOUSE AND APPLIANCES**

**4**

Environmental condition for silk worm rearing, Rearing technology, Brushing, Feeding, Mounting, Mountages, Harvesting and storage of cocoons, Spinning and reeling of silk.

#### **UNIT- IV: GRAINAGE TECHNOLOGY**

**3**

Silk worm seed production, Reproduction and commercial seed, Egg laying, Mother moth examination.

#### **UNIT- V: PESTS AND DISEASES OF SILK WORM**

**2**

Pests of silk worm, Diseases of silk worm: Viral, Bacterial, Fungal, Protozoan, Prevention and control measures.

#### **UNIT- IV: ENTREPRENEURSHIP IN SERICULTURE**

**2**

Marketing and Economic status of Sericulture, Future prospects.

### **UNIT III: PRACTICAL SYLLABUS**

**CREDIT: 1**

1. Identification of various larvalstages of different silkworms.
2. Identification of diseased and disease-free silkworms.
3. Visit to various Sericulture research stations/Govt./Private farms and report submission.

### **BOOKS AND SUGGESTED READINGS**

1. Tembhare. D.B. (1997), Modern Entomology, Himalaya Publishing House.
2. Shukla. G. S & Upadhyay. V. B. (2007) Economic Zoology, Rastogi Publications.
3. Chowdhury, S. N. (1981) Muga Silk Industry, Directorate of Sericulture, Govt of Assam, Guwahati, Assam.

4. Chowdhury, S. N. (1982) Eri Silk Industry, Directorate of Sericulture, Govt of Assam, Guwahati, Assam.

5. Chowdhury, S. N. (1982) Silk and Sericulture, Directorate of Sericulture, Govt of Assam, Guwahati, Assam.

### **OBJECTIVES OF THE COURSE**

1. To develop interest in the field of Sericulture among the students.
2. To motivate students for scientific study in the field of Agro-based Industry by performing simple projects and field visits.
3. To develop skills and interest in entrepreneurship in Sericulture.
4. To help the students to learn means of self-employment and income generation.
5. To cultivate students awareness and appreciation for Sericulture as a hobby and science.

### **COURSE OUTCOME**

1. Students study the morphology and types of silkworm.
2. Students can identify the pests and diseases of silkworms.
3. Students can start up their entrepreneurship in the field of Sericulture.
4. Students can generate their own income commercially.
5. Students get the knowledge about the rearing and disinfectant techniques for sustainable growth.

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102	Soft Skill-2	SEC0210203	3	40-60
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