



Shri Shivaji Education Society Amravati's  
**Shri Shivaji Science And Arts College,**  
**Chikhli. Dist: Buldana**  
**Department of Zoology**



**Organizes**

**Add-on Course in**  
**Sericulture**

**2020-21**

**Patron**



**Organizer**



**Hon. Shri. Harshvardhan P. Deshmukh**

**President**

**Shri Shivaji Education Society, Amravati**

**Dr. Omraj S. Deshmukh**

**Principal**

**Shri Shivaji Science & Arts College, Chikhli**

**Experts**

**Dr. Meena T. Nikam**  
**Prof. & Head**

**Dr. Vijayshree M. Hemke**  
**Course Coordinator**

**Dr. Rajendra B. Gade**  
**Assistant Prof.**

**Note:**

- 1) For Admission Contact to Course Coordinator at Zoology Department
- 2) The Course will be conducted from 01<sup>st</sup> -19<sup>th</sup> Dec 2020
- 3) After successful Completion of the course, certificate will be provided
- 4) Classes will be conducted online as well as offline mode

**Registration Date: 25/11/2020 to 28/11/2020**



Department of Zoology  
Add on Course in  
**Sericulture**



Sericulture is the art and technique of silk production. Sericulture is an agro-industry comprising of two aspects viz. cocoon production and silk reeling. This agro-industry has important socio-economic implications as it generates employment and income especially in the informal sector, among landless and marginal farmers and women; mitigates poverty and paces down rural to urban migration. The price spread in sericulture favours the farm sector to an extent of 48 per cent.

The caterpillars of the '*Bombyx mori*' are the most commonly used silkworm species in sericulture. Other types of silkworms (such as Eri, Muga, and Tussar) are also cultivated for the production of 'wild silks'.

### Objectives of the Course

- ✓ To motivate students for scientific study in the field of Agro-based Industry by— performing simple projects and field visits.
- ✓ To developed the skill, how to develop and earn regular incomes through sericulture in the Buldhana Region
- ✓ To cultivate public awareness and appreciation for Sericulture as a earning source
- ✓ To Train the students in identifying the diseases and pests of the mulberry plant
- ✓ We get to learn about the various skills that are necessary for self employment in the mulberry and seed production
- ✓ This course gives us employment and job opportunities in the public, private and government sector

## **Details of the Physical Infrastructure to be provided for the course:**

### **Classroom:**

Sufficient Class rooms are available in the college for online and offline classes.

### **Utility of the proposed course:-**

i) Skills development ii) Entrepreneur

### **iv) Practical Set:-**

✓ Mulberry plantation

✓ DFL's (Disease free Laying's)

✓ A rearing house and rearing Trays

✓ Chandrika nets for cocoon production

✓ Disinfectants and Equipments Thermometers and Hygrometers

✓ Cocoon Harvesting trays n bags

✓ Videos and Presentation

**v) Workbooks / manuals required:** - (which are designed by the college)

To Study the Sericulture projects college designed experiment manuals and specimens.

**vi) Infrastructure available:** a) Classroom: 3 digital Class Rooms b)

Lab: - Laboratory and silkworm rearing house

## **Project List**

Introduction to sericulture

Status of Sericulture industry in Maharashtra

Status of Sericulture industry in India

Rearing of silkworms

Equipment's or requirements for rearing of Silkworm

Diseases of *Bombyx mori*

Predators and parasitoids of silkworm

Prevention and Disease management

Sericulture and the technical part of silk reeling, stifling

Tasar, Muga, Eri Sericulture: Life History

Efforts can be made for successful Sericulture Project

Status of Cocoon Selling Market

## Course Outcome

- **CO1**-On completion of the Sericulture course, students will be able to understand overall aspects of Sericulture, namely, Mulberry and non mulberry silkworms and their food plants, Rearing of the silkworm, Silkworm pathology their prevention and its relevance in Seri-farmers livelihood.
- **CO2**-This course creates awareness among students about the economic importance and suitability of Sericulture in Indian conditions.
- **CO3**-Demonstrating the Laboratory and field skills in mulberry cultivation and silkworm rearing with an emphasis on technological aspects.
- **CO4**- Students will get hands-on training on Mulberry nursery management, Silkworm rearing.
- **CO5**- Students will know the different components and chain link of sericulture industry.
- **CO6**-Competent to transfer the knowledge and technical skills to the Seri-farmers.
- **CO7**-Demonstrate entrepreneurship abilities, innovative thinking, planning, and setting up small-scale enterprises.

