



Shri Shivaji Education Society, Amravati's
SHRI SHIVAJI SCIENCE & ARTS COLLEGE
CHIKHLI DIST. BULDANA (M.S.)



Department of Zoology
Certificate Course in Sericulture
PM-USHA: Component-3 Grants (To Strengthen College)

Course Duration: 15/11/2025 to 21/02/2026

Total Marks 50

Syllabus: Theory

UNIT I: History of Sericulture (10 Marks)

Introduction to sericulture:
Cultivation of food plants.
Bio-ecology of mulberry silkworms.

Unit II: Rearing of silkworms (10 Marks)

Rearing of silkworms.
Equipment's or requirements for rearing.
Favorable Climatic conditions for rearing.

Unit III: Harvesting (10 Marks)

Harvesting and processing of cocoons.
Stifling and reeling of cocoons
Reeling's selling to Textile mills through Government sanctioned rates.
Government Subsidies and Schemes for Sericulture farming.
Reeling appliances

Unit IV: Diseases n Preventions (10 Marks)

Diseases of *Bombyx mori*
Preventive measures for disease free cocoon production.
4.2 Predators and parasitoids of silkworm and their management

UNIT V: 4. Non-Mulberry sericulture: (10 Marks)

Tasar sericulture:
Muga sericulture;
Eri sericulture:

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Certificate Course in Sericulture Syllabus of Practical

1. Life Cycle: Morphology of egg, larva, pupa and adult silkworm of B. mori
2. Sex separation in larva, pupa and adult silkworm
3. Anatomy of silkworm: Dissection of mot parts, digestive system, respiratory system, nervous system, silk gland, reproductive system of male and female moth.
4. Cocoon characteristics- uni, bi & mv races
5. Rearing houses, model rearing house, rearing appliances for chawki and late age stages
6. Disinfection – types of disinfectants – concentration, dosage requirements.
7. Incubation of silkworm eggs: method, black boxing, optimum environmental condition.
8. Calculation of fecundity and hatching percentage.
9. Chawki rearing characteristics and methods. feeding, bed cleaning, spacing, moulting.
10. Late age rearing characteristics and methods. feeding, bed cleaning, spacing, moulting. Spinning and mounting – types and methods of mounting.
11. Moulting – identification of moulted worms and care to be taken during moulting.

Practical Work:

(50 Marks)

Reference Books

1. Afifa, S Kamili and Amin Masood, M(2000): Principles of temperate sericulture, Kalyani Publishers, Ludhiyana
2. Bongale, UD(2010): Mulberry Cultivation, Lectures on Sericultures.
3. Dandin, S.B. and Giridha, K (2010): Handbook of Sericulture Technologies, (4th revised edition), Central Silk Board. Bangalore
4. FAO Manuals: Mulberry Cultivation FAO Rom
5. Ganga G. (2013) Comprehensive Sericulture Vol 1: Moriculture (Oxford & IBM Publishers Co. Pvt. Ltd, New Delhi)

The distribution of marks for practical examination will be as follows:

☐ Project assignments	10 Marks
☐ Field visit report.	10 Marks
☐ Students give Seminars any topics related to syllabus	10 Marks
☐ Submission of Practical Record Book	10 Marks
☐ Viva-Voce	10 Marks

Total Marks 50

Project Work

25 Marks


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