



**SHIVNERI MAHAVIDYALAYA SHIRUR ANANTPAL DIST LATUR**

**CERTIFICATE COURSE IN SERICULTURE**

**ORGANISED BY**

**DEPARTMENT OF ZOOLOGY**

**ACADEMIC YEAR -: 2023-2024**

***Disclaimer***

*The syllabus for the B.Sc. Zoology Certificate Course in Sericulture follows guidelines from the college development committee at Shivneri mahavidyalaya Shirur anantpal Dist-Latur 413544. It has been meticulously crafted by the department of Zoology and approved by Principal, Shivneri Mahavidyalaya. Participants are urged to use this syllabus as a comprehensive guide for Sericulture studies.*

SHIVNERI MAHAVIDYALAYA SHIRUR ANANTPAL DIST LATUR

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE IN SERICULTURE

SYLLABUS

Period – 30

Mark – 50

**Objectives:-**

- 4) Study the cultivation of mulberry plant, silk worm ; identify and manage mulberry diseases.
- 5) Acquireskill to carry out silk worm rearing and post-cocoon processing.
- 6) Study the silk worm diseases, their control and preservation.

**Outcome:-**

- 3) Ability to cultivate mulberry plants and silk worms; identify and manage mulberry diseases.
- 4) Properly carry out silk worm rearing and post-cocoo processing.

**UNIT – I**

**Introduction of Sericulture**

**Period-09**

- F) History and Scope of sericulture, present status of sericulture in India.
- G) Types of silkworm- Mulberry, Tasar, Eri and Muga silkworm
- H) Cultivation of Mulberry- Planting, Grafting and Harvesting
- I) Mulberry diseases- Foliar diseases, Root rot diseases, Commonpests of mulberry
- J) Silk worm rearing equipments

**UNIT – II**

**Rearing practices**

**Period-12**

- C) Procurement of quality seeds
- D) Preperation of feed bed and feeding, bed cleaning, spacing, mounting, harvesting of cocoons, post cocoon processing-reeling.

**Pests and Diseases**

- E) Introduction and classification of different types of silkworm diseases.
- F) Infulence of environment and nutrition on the incidence of diseases.
- G) Pests of silkworm.
- H) Pathogenesis, Control and Prevention of silkworm diseases

## UNIT - III

Period-09

### Sericulture Economics and Marketing

- E) Mulberry cultivation- Cost and returns under irrigation and rainfed condition.
- F) Economics of silk worm rearing; Investments and returns.
- G) Sericulture marketing organization for seed cocoon, raw silk and silk fabric.
- H) Traditional and regulated markets.

### REFERENCE BOOKS

- 6) Manual on Sericulture; Food and agriculture organisation , Rome 1976.
- 7) Silk worm rearing and Diseases of silk worm Pub.Govt.Press, Bangalore.
- 8) Economic Zoology- Shukla and Upadhyaya, Rastogi Publication Meerut.
- 9) Crop-pests and how to fight them- Govt Of Maharashtra Pub, Bombay.
- 10) Sericulture Training Manual by Soo-Ho-Lim, Sang-Poong Lee.

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CERTIFICATE COURSE IN SERICULTURE

Student Enrollment List

Academic Year 2023-2024

Sr. No.	Name Of Student	Class
1	Birajdar Pawan U	B Sc T Y
2	Chigure Priti A	B Sc T Y
3	Kadam Govind B	B Sc T Y
4	Kamble Shreysh S	B Sc T Y
5	Malkapure Dattraya M	B Sc T Y
6	Shendre Vashistha R.	B Sc T Y
7	Gaurkar Shashikant A	B Sc T Y
8	Gavhane Madhav S	B Sc T Y
9	Rautrao Deepali A	B Sc T Y
10	Kamble Nikhil M	B Sc S Y
11	Shinde Akash V	B Sc S Y
12	Suryawanshi Aniket M	B Sc S Y

  
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CERTIFICATE COURSE IN SERICULTURE

Time Table

Academic Year 2023-2024

Day/Time	09:10 To 10:00 AM	03:50 To 04:40 PM
Monday		
Tuesday	Certificate course In Sericulture	
Wednesday		Certificate course In Sericulture
Thursday		Certificate course In Sericulture
Friday	Certificate course In Sericulture	
Saturday		



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CERTIFICATE COURSE IN SERICULTURE

Student Attendance

Academic Year 2023-2024

Month – August 2023

Sr No	Name Of Student	8	9	10	11	17	18	22	23	24	25	29	30	31
1	Birajdar Pawan U	P	P	P	P	P	P	P	P	P	P	P	P	P
2	Chigure Priti A	P	P	P	P	P	P	P	P	P	P	P	P	P
3	Kadam Govind B	P	P	P	P	P	P	P	P	P	P	P	P	P
4	Kamble Shreysh S	P	P	P	P	P	P	P	P	P	P	P	P	P
5	Malkapure Dattraya M	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Shendre Vashistha R.	P	P	P	P	P	P	P	P	A	P	P	P	P
7	Gaurkar Shashikant A	P	P	P	P	P	P	P	P	P	P	P	P	P
8	Gavhane Madhav S	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Rautrao Deepali A	P	P	P	P	A	P	P	P	P	P	P	P	P
10	Kamble Nikhil M	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Shinde Akash V	P	P	P	P	P	P	P	P	P	P	A	P	P
12	Suryawanshi Aniket M	P	P	P	P	P	P	P	P	P	P	P	P	P

  
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Student Attendance

Academic Year 2023-2024

Month – September 2023

Sr No	Name Of Student	5	6	7	8	9	12	13	14	15	16	20	21	22	23	26	27	29	30
1	Birajdar Pawan U	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	Chigure Priti A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	Kadam Govind B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	Kamble Shreysh S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	Malkapure Dattarya M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Shendre Vashistha R.	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P
7	Gaurkar Shashikant A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	Gavhane Madhav S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Rautrao Deepali A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
10	Kamble Nikhil M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Shinde Akash V	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
12	Suryawanshi Aniket M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

  
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Exam Seat Number

Sr. No.	Name Of Student	Seat No
1	Birajdar Pawan U	CCS34713
2	Chigure Priti A	CCS34714
3	Kadam Govind B	CCS34715
4	Kamble Shreysh S	CCS34716
5	Malkapure Dattraya M	CCS34717
6	Shendre Vashista R.	CCS34718
7	Gaurkar Shashikant A	CCS34719
8	Gavhane Madhav S	CCS34720
9	Rautrao Deepali A	CCS34721
10	Kamble Nikhil M	CCS34722
11	Shinde Akash V	CCS34723
12	Suryawanshi Aniket M	CCS34724



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QUESTION PAPER

Academic Year 2023-2024

Marks-30

Time-01 Hrs

Seat No. Of Candidates:-

- Q.1) When----are of moult feeding may be resumed.  
a) 80% b) 90% c) 95% d) 100%
- Q.2) Antherea pernyi feeds on -----leaves.  
a) Oak b) Castor c) Silk d) Sualu
- Q.3) Where a univoltine race is reared in India.  
a) Bihar b) Kashmir c) Karnataka d) West bengal
- Q.4) How many types of mutation breeding are there.  
a) Two b) Three c) Four d) Five
- Q.5) Most absorption of water in a plants takes place from the---  
a) root tap b) root branches c) hairs zone d) tape root
- Q.6) The Arrangement of leaves in a plants is known as---  
a) Leaf bud b) Attachment of leaf c) Phylotaxy d) Taxonomy
- Q.7) Male and female moth of tasar silkworm can easily be differentiate from the---  
a) Wings b) Thorax c) Antennae d) Abdomen
- Q.8) The abdomen of female moth in mulberry is comparatively ---than the male  
a) Smaller b) Bigger c) Kinger d) Thiner
- Q.9) Phylosamia cynthia is the wild silk moth of ----  
a) Muga b) Tasar c) Eri d) Mulberry
- 10) Leaf ruts is caused by-----  
a) Virus b) Leaf gall c) Fungus d) Bacteria
- Q.11) Give the four variety of silk worm which one is the only monophagus nature  
a) Eri silk worm b) Muga silk worm c) Oak Tasar silkworm d) Mulberry silkworm
- Q.12) In Orissa tropical tasar is mainly fed on-----  
a) Sal b) Arjun c) Ber d) Janum
- Q.13) Silkworm undergoes-----Moulting.  
a) Two b) Three c) Four d) Five

Q.14) The average number of eggs laid by mulberry silk moth is;

- a) 300 b) 400 c) 450 d) 500

Q.15) Optimum temperature for rearing mulberry silkworm is;

- a) 24-26 b) 24-25 c) 26-28 d) 23-28

Q.16) What is the main physical disinfectants

- a) Cold storage b) Sunlight c) Wind d) To keep outside

Q.17) Muga silkworm has the minimum number of chromosomes than all other silkworm. The chromosomes of Muga silkworm is---

- a) 25 b) 30 c) 15 d) 40

Q.18) The chromosome number of *Anthereae proylei* is---

- a) 30-19 b) 30 c) 25-30 d) 40

Q.19) Oak Tasar silkworm is a -----

- a) Strong b) Pure c) Weak d) Partial

Q.20) Silkworm undergoes ----- time moulting

- a) Two b) Three c) Four d) Five

Q.21) Which country is the largest producer of raw silk.

- a) Japan b) India c) China d) South Korea

Q.22) India occupies the ----- position in production of raw silk in the world.

- a) 2 b) 3 c) 4 d) 5

Q.23) Maximum raw silk production in India is:

- a) Bivoltine silk b) Multivoltine silk c) Univoltine silk d) Trivoltine silk

Q.24) Which state is the largest producer of raw silk in India.

- a) Tamilnadu b) Andhra Pradesh c) Karnataka d) West Bengal

Q.25) Which state is the leading raw silk producer in India.

- a) Tamilnadu b) Andhra Pradesh c) Karnataka d) West Bengal

Q.26) Which country is producing all the four commercial silk in the world.

- a) India b) China c) South Korea d) Japan

Q.27) Muga silk is produced only in :

- a) India b) Bangladesh c) Pakistan d) Myanmar

Q.28) More than -----% of the raw silk production in India is Mulberry silk.

- a) 80% b) 87% c) 89% d) 77%

Q.29) The scientific name of mulberry silkworm is---

- a) *Bombyx mori* b) *Bombyx mandarina* c) *Bombyx rotundapex* d) *Bombyx incomposita*

Q.30) *Philosamia ricini* is the scientific name of---

- a) Eri silk worm b) Muga silk worm c) Oak Tasar silkworm d) Mulberry silkworm

31) Very high temperature during egg laying results to-----

- a) Reduced eggs   b) Dead eggs   c) Diapause eggs   d) Unfertilized eggs

32) Female moth is generally.....

- a) Weaker   b) Inactive   c) Stronger than male moth   d) Over active

33) Occurrence of grasserie is throughout year but more in.....

- a) Spring   b) Summer   c) Winter   d) Autumn

34) Uzi flies are pest of.....

- a) Mulleberry   b) Non mulleberry   c) All variety of silk worm   d) Eri

35) Ants brings more damage to silkworm reared in.....

- a) Indoor   b) Outdoor   c) Semi outdoor   d) Semi indoor

36) Birds are also predators causing extensive damage to silkworm of .....

- a) Mulberry   b) Non-mulberry   c) Eri   d) Muga

37) Speciation in another form of .....diseases.

- a) Grasserie   b) Flacherice   c) Fungal diseases   d) Pebrine

38) Mulberry grows best in a rainfall ranging of.....

- a) 650-200m   b) 600-650 m   c) 700-2500 m   d) 200-2500 m

39) The best season for planting mulberry in the north east is.....

- a) Jan - Feb   b) March - April   c) May - June   d) June - July

40) Space for raw system of planting mulberry is.....

- a) 50cm X 10cm   b) 45cm X 10cm   c) 50cm X 15cm   d) 40cm X 10cm

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Result

Academic Year 2023-2024

Sr. No.	Name Of Student	Seat No	Internal (10)	MCQ (40)	Total (50)
2	Chigure Priti A	CCS34714	08	35	43
3	Kadam Govind B	CCS34715	07	37	44
4	Kamble Shreysh S	CCS34716	08	38	46
5	Malkapure Dattraya M	CCS34717	08	36	44
6	Shendre Vashistha R.	CCS34718	07	37	44
7	Gaurkar Shashikant A	CCS34719	07	35	42
8	Gavhane Madhav S	CCS34720	08	36	44
9	Rautrao Deepali A	CCS34721	08	38	46
10	Kamble Nikhil M	CCS34722	07	37	44
11	Shinde Akash V	CCS34723	07	38	45
12	Suryawanshi Aniket M	CCS34724	08	36	44

  
**DR. JADHAV R. R.**  
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Guru Vishwambharkrupa Bahauddeshiya Shikshan Prasarak Mandal Lakkadjawalga's

# SHIVNERI MAHAVIDYALAYA

SHIRURANANTPAL, DIST. LATUR-413544

## CERTIFICATE

This is to certify that, Mr/Mrs *BIRAJDAR P.U.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of **Zoology** during the academic year **2023-2024**.

Hence certified

Date:- 05/10/2023

**Dr. LADHAV R. R.**  
**Head of Department**

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**CERTIFICATE**

This is to certify that, Mr/Mrs *CHIGURE P.A.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

Hence certified

Date:- 05/10/2023

**DR. JADHAV R. R.**  
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This is to certify that, Mr/Mrs *KADAM G.D.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

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Date:- 05/10/2023

**DR. JADHAV R. R.**  
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This is to certify that, Mr/Mrs *KAMBLE S.S.* having successfully completed the Certificate Course in SERICULTURE conducted by Department Of Zoology during the academic year 2023-2024.

Hence certified

Date:- 05/10/2023

**Head of Department**

Head  
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**Principal**  
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**SHIVNERI MAHAVIDYALAYA**  
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**CERTIFICATE**

This is to certify that, Mr/Mrs *MALKAPURE D.M.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

Hence certified

Date:- 05/10/2023

**DR. JADHAV R. R.**  
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**SHIVNERI MAHAVIDYALAYA**  
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This is to certify that, Mr/Mrs *SHENDRE V.R.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

Hence certified

Date:- 05/10/2023

**U.R. JADHAV R. R.**  
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**CERTIFICATE**

This is to certify that, Mr/Mrs *GAURKAR S.A.* having successfully completed the Certificate Course in SERICULTURE conducted by Department Of Zoology during the academic year 2023-2024.

Hence certified

Date:- 05/10/2023

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**CERTIFICATE**

This is to certify that, Mr/Mrs *GAVHANE M.S.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

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**CERTIFICATE**

This is to certify that, Mr/Mrs *RAUTRAO D.A.* having successfully completed the Certificate Course in SERICULTURE conducted by Department Of Zoology during the academic year 2023-2024.

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Date:- 05/10/2023

**L.R. JADHAV R. R.**  
**Head of Department**  
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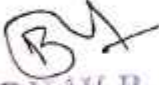
**SHIVNERI MAHAVIDYALAYA**  
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**CERTIFICATE**

This is to certify that, Mr/Mrs *KAMBLE N.M.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

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Date-: 05/10/2023

  
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This is to certify that, Mr/Mrs *SHINDE A.V.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

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This is to certify that, Mr/Mrs *SURYAWANSHI A.M.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2023-2024.

Hence certified

Date-: 05/10/2023

**L.R. JADHAV R.P.**  
**Head of Department**  
Dept. of Zoology  
Shivneri Mahavidhyalaya,  
Shirur Anantpal, Dist. Latur

**PRINCIPAL**  
**Principal**  
Shivneri Mahavidyalaya  
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