



**SHIVNERI MAHAVIDYALAYA SHIRUR ANANTPAL DIST
LATUR**

CERTIFICATE COURSE IN SERICULTURE

ORGANISED BY

DEPARTMENT OF ZOOLOGY

ACADEMIC YEAR -: 2022-2023

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 – 30

Objectives-:

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

Outcome-:

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

UNIT – I

Introduction of Sericulture

Period-09

- A) History and Scope of sericulture, present status of sericulture in India.
- B) Types of silkworm- Mulberry, Tasar, Eri and Muga silkworm
- C) Cultivation of Mulberry- Planting, Grafting and Harvesting
- D) Mulberry diseases- Foliar diseases, Root rot diseases, Commonpests of mulberry
- L) Silk worm rearing equipments

UNIT – II

Rearing practices

Period-12

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

Pests and Diseases

- A) Introduction and classification of different types of silkworm diseases.
- B) Infulence of environment and nutrition on the incidence of diseases.
- C) Pests of silkworm.
- D) Pathogenesis, Control and Prevention of silkworm diseases

UNIT – III

Period-09

Sericulture Economics and Marketing

- A) Mulberry cultivation- Cost and returns under irrigation and rainfed condition.
- B) Economics of silk worm rearing; Investments and returns.
- C) Sericulture marketing organization for seed cocoon, raw silk and silk fabric.
- D) Traditional and regulated markets.

REFERENCE BOOKS

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

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Student Enrollment List

Academic Year 2022-2023

Sr. No.	Name Of Student	Class
1	Chatre Mahesh A	B Sc T Y
2	Gambhire Sulbha P	B Sc T Y
3	Waghmare Parmeshwar R	B Sc T Y
4	Chavan Kiran U	B Sc T Y
5	Kale Khandu P	B Sc T Y
6	Khan Suleman N	B Sc T Y
7	Mathpati Pratiksha S	B Sc T Y
8	Panchal Vijaykumar S	B Sc T Y
9	Pawar Shesherao P	B Sc T Y
10	Bhagole Chetan S	B Sc S Y
11	Ladkar Ganesh D	B Sc S Y
12	Biradar Aftab S	B Sc S Y


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Time Table

Academic Year 2022-2023

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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Student Attendance

Academic Year 2022-2023

Month – July 2022

Sr No	Name Of Student	5	6	7	8	9	12	13	14	15	16	19	20	21	22	26	27	28	29
1	Chatre Mahesh A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	Gambhire Sulbha P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	Waghmare Parmeshwar R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	Chavan Kiran U	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	Kale Khandu P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Khan Suleman N	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
7	Mathpati Pratiksha S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	Panchal Vijaykumar S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
9	Pawar Shesherao P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
10	Bhagole Chetan S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Ladkar Ganesh D	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
12	Biradar Aftab S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P



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Student Attendance

Academic Year 2022-2023

Month – August 2022

Sr No	Name Of Student	10	11	12	17	18	19	23	24	25	26	29	30
1	Chatre Mahesh A	P	P	P	P	P	P	P	P	P	P	P	P
2	Gambhire Sulbha P	P	P	P	P	P	P	P	P	P	P	P	P
3	Waghmare Parmeshwar R	P	P	P	P	P	P	P	P	P	P	P	P
4	Chavan Kiran U	P	P	P	P	P	P	P	P	P	P	P	P
5	Kale Khandu P	P	P	P	P	P	P	P	P	P	P	P	P
6	Khan Suleman N	P	P	P	P	P	P	P	P	A	P	P	P
7	Mathpati Pratiksha S	P	P	P	P	P	P	P	P	P	P	P	P
8	Panchal Vijaykumar S	P	P	P	P	P	P	P	P	P	P	P	P
9	Pawar Shesherao P	P	P	P	P	A	P	P	P	P	P	P	P
10	Bhagole Chetan S	P	P	P	P	P	P	P	P	P	P	P	P
11	Tadkar Ganesh D	P	P	P	P	P	P	P	P	P	P	A	P
12	Biradar Aftab S	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	Chatre Mahesh A	CCS34701
2	Gambhire Sulbha P	CCS34702
3	Waghmare Parmeshwar R	CCS34703
4	Chavan Kiran U	CCS34704
5	Kale Khandu P	CCS34705
6	Khan Suleman N	CCS34706
7	Mathpati Pratiksha S	CCS34707
8	Panchal Vijaykumar S	CCS34708
9	Pawar Shesherao P	CCS34709
10	Bhagole Chetan S	CCS34710
11	Ladkar Ganesh D	CCS34711
12	Biradar Aftab S	CCS34712


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QUESTION PAPER

Academic Year 2022-2023

Marks-30

Time-01 Hrs

Seat No. Of Candidates:-

Q.1) Which country is the largest producer of raw silk.

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

Q.2) India occupies the-----position in production of raw silk in the world.

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

Q.3) Maximum raw silk production in India is:

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

Q.4) Which state is the largest producer of raw silk in India.

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

Q.5) Which state is the leading raw silk producer in India.

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

Q.6) Which country is producing all the four commercial silk in the world.

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

Q.7) Muga silk is produced only in :

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

Q.8) More than -----% of the raw silk production in India is Mulberry silk.

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

Q.9) The scientific name of mulberry silkworm is---

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

Q.10) Philosamia ricini is the scientific name of---

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

Q.11) Out of the four variety of silk worm which one is the only monophagous nature

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

Q.12) In India 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) 25-27 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 undergo-----time moulting

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

Q.21) When----are of moult feeding may be resumed.

a) 80% b) 90% c) 95% d) 100%

Q.22) *Anthereae pernyi* feeds on -----leaves.

a) Oak b) Castor c) Son d) Soalu

Q.22) Where a univoltine race is reared in India.

a) Bihar b) Kashmir c) Karnataka d) West bengal

Q.23) How many types of mutation breeding are there.

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

Q.24) Most absorption of water in a plants takes place from the---

a) root tap b) root branches c) hairs zone d) tap root

Q.25) The Arrangement of leaves in a plants is known as---

a) Leaf bud b) Attachment of leaf c) Phylotaxy d) Taxonomy

Q.26) The female moth of tasar silkworm can easily be differentiate from the---

a) Wings b) Thorax c) Antennae d) Abdomen

Q.27) The abdomen of female moth in mulberry is comparatively ---than the male

a) Smaller b) Bigger c) Kinger d) Thiner

Q.28) *Phylosamia cynthia* is the wild silk moth of ----

a) Muga b) Tasar c) Eri d) Mulberry

Q.29) Leaf luts is caused by-----

a) Virus b) Leaf gall c) Fungus d) Bacteria

Q.30) Plant hopper is also called : a) Leaf hopper b) Root knot c) Jassid d) Sucking insect

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 mere in.....

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

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

- a) Mullebry 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 ofdiseases.

- 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 2022-2023

Sr. No.	Name Of Student	Seat No	Internal (10)	MCQ (40)	Total (50)
1	Chatre Mahesh A	CCS34701	07	36	43
2	Gambhire Sulbha P	CCS34702	08	35	43
3	Waghmare Parmeshwar R	CCS34703	07	37	44
4	Chavan Kiran U	CCS34704	08	38	46
5	Kale Khandu P	CCS34705	08	36	44
6	Khan Suleman N	CCS34706	07	37	44
7	Mathpati Pratiksha S	CCS34707	07	35	42
8	Panchal Vijaykumar S	CCS34708	08	36	44
9	Pawar Shesherao P	CCS34709	08	38	46
10	Bhagole Chetan S	CCS34710	07	37	44
11	Ladkar Ganesh D	CCS34711	07	38	45
12	Biradar Aftab S	CCS34712	08	36	44


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CERTIFICATE

This is to certify that, Mr/Mrs *CHATRE M.A.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

Hence certified

Date-: 05/09/2022

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Head
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This is to certify that, Mr/Mrs *Gambhire S. A.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

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Date:- 05/09/2022


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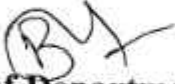
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This is to certify that, Mr/Mrs *WAGHMARE P.R.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

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This is to certify that, Mr/Mrs *CHAVAN K. U.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

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This is to certify that, Mr/Mrs *KALE K. P.* having successfully completed the Certificate Course in SERICULTURE conducted by Department Of Zoology during the academic year 2022-2023.

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CERTIFICATE

This is to certify that, Mr/Mrs *KHAN S. N.* having successfully completed the Certificate Course in SERICULTURE conducted by Department Of Zoology during the academic year 2022-2023.

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CERTIFICATE

This is to certify that, Mr/Mrs *MATHPATI P. S.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

Hence certified

Date:- 05/09/2022


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CERTIFICATE

This is to certify that, Mr/Mrs *PANCHAL V.S.* having successfully completed the Certificate Course in SERICULTURE conducted by Department Of Zoology during the academic year 2022-2023.

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This is to certify that, Mr/Mrs *PAWAR S.P.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

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CERTIFICATE

This is to certify that, Mr/Mrs *BHAGOLE C.S.* having successfully completed the Certificate Course in SERICULTURE conducted by Department Of Zoology during the academic year 2022-2023.

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CERTIFICATE

This is to certify that, Mr/Mrs *LADKAR G.D.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

Hence certified

Date-: 05/09/2022

DR. JAGDISH R. R.
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This is to certify that, Mr/Mrs *BIRADAR A.S.* having successfully completed the Certificate Course in **SERICULTURE** conducted by Department Of Zoology during the academic year 2022-2023.

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