

Rayat Shikshan Sanstha's,
Arts, Science and Commerce College, Mokhada
Department of Zoology
Short Term Course on: "Basics of Sericulture"
Course Code-USZS01 **Date: 01/09/2021**
Board of Studies-2021-22

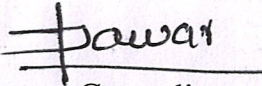
Sr. No.	Designation	Name of Person
1)	Chairman	Hon. Prin. Dr. L. D. Bhor A.S.C.College,Mokhada.
2)	Member	Dr. S.K.Pawar (Course Coordinator) Dept.of Zoology A.S.C.College,Mokhada.
3)	Member	Dr.A.L.Shaikh Dept.of Zoology A.S.C.College,Mokhada.
4)	Member	Dr. V. S. Gadekar Head, Dept. Of Zoology, Sangola College, Sangola
5)	Member	Prof. V. S. Sutar Head, Dept. Of Zoology, ASC College, Vikramgad

Minutes of Online Meeting

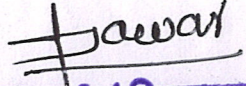
Board of studies meeting for the short term Course on "**Basics of Sericulture**" was held on 01 / 09 /2021 at 11.00 AM.

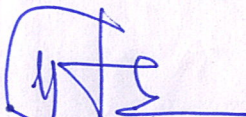
The Following points are discussed in the meeting

- Syllabus formation of **Basics of Sericulture** certificate course
- Distribution of work
- To run the course without fee for encouragement of Students


Course Co-ordinator




Head, विभागप्रमुख
Department of Zoology / प्राणीशास्त्र विभाग
Department of Zoology


Principal

Arts, Science & Commerce, College
Mokhada Dist. Palehar

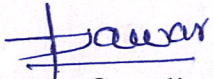
Rayat Shikshan Sanstha's,
Arts, Science and Commerce College, Mokhada, Dist: Palghar
Department of Zoology
2021-22

Short Term Course on Basics of Sericulture

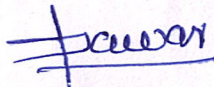
Date: 28/09/2021


Notice

All the students of S.Y.B.Sc. are hereby informed that short term course entitled as “**Basics of Sericulture**” is starting from 1st October 2021. All should remain present as per the instructions and time table.


Course Coordinator




Head,
Department of Zoology
Arts, Science & Commerce College, Mokhada, Dist. Palghar


Principal
Arts, Science & Commerce College
Mokhada, Dist. Palghar

Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada, Dist. Palghar

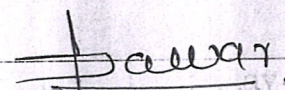
Department of Zoology

Short Term Course- Basics of Sericulture

Timetable

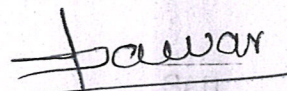
2021-2022

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Theory						
02.05 to 02.50 pm				SKP	ALS	
02.50 to 03.35 pm				ALS	SKP	
Practical						
02.05 to 05.05						SKP

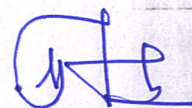


Coordinator,
Short term Course





Head, / विभागाध्यक्ष
Department of Zoology / प्राणीशास्त्र विभाग



Principal
Arts, Science & Commerce, College
Mokhada, Dist. Palghar



Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada

Department of Zoology
2021-2022

Short Term Course

Title of the Course: Sericulture
Duration : 3 Months
Course Coordinator: Dr. S.K. Pawar

Board of Studies:

Chairman : Hon. Prin. Dr. L.D. Bhor
A.S.C. College, Mokhada

Member : Dr. S.K. Pawar (Course Coordinator)
Head, Dept. of Zoology, A.S.C. College, Mokhada

Member : Dr. A.L. Shaikh
Dept. of Zoology, A.S.C. College, Mokhada

Member : Dr. V.S. Gadekar
Head, Dept. of Zoology, Sangola College, Sangola

Member : Prof. V.S. Sutar
Head, Dept. of Zoology, ASC College, Vikramgad

Objectives of the Course:

1. To give the knowledge about basics of sericulture
2. To impart the knowledge of silk worm life history.
3. To give students hands on practice of rearing of silkworm.
4. To make students aware about applications of sericulture.

Course Structure :

Content	Lecture	Credit
Theory		
Basics of Sericulture	30 Lectures	2 Credits
Practical (Demonstration)		
Practical Based on theory paper- Sericulture	60 Lectures	4 Credits
Total	90 Lectures	6 Credits

Received
13/12/2021

P. Pawar



Syllabus:

Theory
Basics of Sericulture

Duration: 30 lectures (2 Credits)

Unit I Introduction

- 1.1 History of sericulture
- 1.2 Introduction and scope of sericulture
- 1.3 Applications of sericulture

Unit II Silk moth

- 2.1 Life cycle of Silk moth
- 2.2 General morphology of silk moth and its types

Unit III Techniques involved in Sericulture

- 3.1 Incubation of silk moth eggs
- 3.2 Rearing of silkworm

Unit IV Diseases of Silkworm

- 4.1 Bacterial diseases of silkworm
- 4.2 Fungal diseases of silkworm
- 4.3 Viral disease of silkworm

Reference books:

1. R. E. Snodgrass (1935). Principles of Insect Morphology- McGraw-Hill Book Company, p.667
2. M. Johnson and M. Kesary (1995) Sericulture -. Saras Publication, p. 264
3. Mukerji and Nitya Gopal (1999). Handbook of Sericulture, Bengal Secretariat Book Depot, Kolkata, 330.
4. Hisao Aruga (1973). Principles of Sericulture. Balcema and Roderdam publication p.266
5. Veda, K. (1997). Silkworm rearing. Science publisher. p. 302

Syllabus

Practical Basics of Sericulture

Duration: 60 lectures (4 Credits)

Practical based on theory

1. Study of morphology of silk worm
2. Study of morphology of silk moth
3. Study of life cycle of silk moth
4. Demonstration of incubation of silk moth eggs
5. Study of different rearing techniques of silk worm
6. Study of bacterial diseases of silk worm
7. Study of fungal diseases of silk worm
8. Study of viral diseases of silk worm
9. Study of economic importance of silk





Question Paper Pattern:

Theory

Total Marks: 50

Duration: 02 Hrs.

Que. 1. Multiple choice questions

10

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Que.2. Short answer questions (Any 4)

20

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Que.3. Long Answer Questions (Any 2)

20

- 1.
- 2.
- 3.



Practical

Total Marks 50

Duration: 3 Hrs.

Que.1. Describe different rearing techniques of silkworm	12
Que.2. Describe in brief life cycle of silk moth/Morphology of silkworm	12
Que.3. Identify and describe disease of silkworm (Bacterial/Fungal/Viral)	08
Que.4. Explain method of incubation of silkworm eggs	08
Que.5. Spotting	10
1. Identify and comment on it	
2. Identify and describe	
3. Identify and give economic importance	
4. Identify and describe	
5. Identify and comment on it	

Job Opportunities

1. Job at Government sericulture center
2. Self-employment

"Education Through Self - Help is Our Motto"

- Karmaveer

Rayat Shikshan Sanstha's



ARTS, SCIENCE & COMMERCE COLLEGE

(Central Govt. Sponsor + 2 Stage Vocational Education Course)

MOKHADA, Tal. : Mokhada, Dist.: Palghar - 401 604

Record of Attendance

Year 2021 - 2022

Class : S.Y. B.Sc Div: Zoology

Subject : Short Term Course on

Basics of Sericulture

Name of the Lecturer : _____

Roll No.	Name of the Student	Category	Backlog												
				01	02	08	09	15	16	22	23	29	30		
8027/21	Bagul Chetan Saktharam			P	P	P	P	P	P	P	P	P	P	P	
8028/21	Bharat Devraj Suresh			P	P	P	P	P	P	P	P	P	P	P	
8029/21	Bhasme Ashwini Sakru			A	P	A	P	P	P	A	P	P			
8030/21	Gavandha Aika Shankar			P	P	A	P	A	A	A	P	A	A		
8031/21	Govind Sujit Ramesh			A	A	P	P	P	P	P	P	P	P		
8032/21	Janathe Aprna Santosh			P	P	P	A	P	P	A	P	P	P		
8033/21	Mahale Nishant Sadu			P	P	A	P	P	P	P	A	P	P		
8034/21	Moule Rahul Chandrakant			A	P	P	P	P	A	P	P	P	P		
8035/21	Patil Yogita Parshuram			P	P	P	P	P	P	A	P	A	P		
8036/21	Pawar Jagdish Ramesh			P	A	P	A	P	P	P	P	P	P		
8037/21	Warghade Nutan Devedra			A	P	P	P	P	A	P	P	P	P		
8038/21	Warghade Yogesh Bhalchandra			P	P	P	A	P	P	P	P	P	P		
8049/21	Kanhat Kunal Suresh			P	P	P	P	P	P	P	P	P	P		

Pawar
(co-ordinator)

Head
Department of Zoology



Principal
Arts, Science & Commerce College
Mokhada, Dist. Palghar

Arts, Science & Commerce College, M

Month: November 202

Roll No.	Name of the Student	Catagary	Backlog
8027/21	Bagul Chetan Saktharam		
8028/21	Bharat Devraj Suresh		
8029/21	Bhasme Ashwini Sakru		
8030/21	Gavandha Aika Shankar		
8031/21	Govind Sujit Ramesh		
8032/21	Janathe Aprna Santosh		
8033/21	Mahale Nishant Sadu		
8034/21	Moule Rahul Chandrakant		
8035/21	Patil Yogita Parshuram		
8036/21	Pawar Jagdish Ramesh		
8037/21	Warghade Nutan Deverdra		
8038/21	Warghade Yogesh Bhalchandra		
8049/21	Kanhat Kunal Suresh		

05	06	12	13	19	20	26	27
				P	P	P	P
				P	P	P	P
				P	P	P	A
				A	A	A	A
				P	P	P	P
				P	A	P	P
				P	P	P	P
				A	P	P	P
				P	P	P	P
				P	A	P	P
				P	P	P	P

DIPALI VADANJ

Pawar
 Head
 Department of Zoology
 (co-ordinator)



MIS
 Principal
 Arts, Science & Commerce, College
 Moxhada, Dist. Palghar

Arts, Science & Commerce College, M

Month: December 202

Roll No.	Name of the Student	Catagary	Backlog	3	4	10	11	17	18	24	25	31
8027/21	Bagul Chetan Saktharam			P	P	P	P	P	P	/	/	/
8028/21	Bharat Devraj Suresh			P	P	P	P	P	P	/	/	/
8029/21	Bhasme Ashwini Sakru			P	P	P	P	P	A	/	/	/
8030/21	Gavandha Aika Shankar			A	A	A	A	A	A	/	/	/
8031/21	Govind Sujit Ramesh			P	P	P	A	P	P	/	/	/
8032/21	Janathe Aprna Santosh			P	P	P	P	P	P	/	/	/
8033/21	Mahale Nishant Sadu			P	P	P	A	P	P	/	/	/
8034/21	Moule Rahul Chandrakant			A	P	P	A	P	P	/	/	/
8035/21	Patil Yogita Parshuram			P	P	P	P	P	P	/	/	/
8036/21	Pawar Jagdish Ramesh			P	P	P	A	A	P	/	/	/
8037/21	Warghade Nutan Deventra			P	P	P	P	P	P	/	/	/
8038/21	Warghade Yogesh Bhalchandra			A	P	P	A	P	P	/	/	/
8049/21	Kanhat Kunal Suresh			P	P	P	P	P	P	/	/	/

Pawar
(co-ordinator)

Head
Department of Zoology




Principal
Arts, Science & Commerce College
Mokhada, Dist. Palghar

Roll No.	Name of the Student	Catagary	Backlog
8027/21	Bagul Chetan Saktharam		
8028/21	Bharat Devraj Suresh		
8029/21	Bhasme Ashwini Sakru		
8030/21	Gavandha Aika Shankar		
8031/21	Govind Sujit Ramesh		
8032/21	Janathe Aprna Santosh		
8033/21	Mahale Nishant Sadu		
8034/21	Moule Rahul Chandrakant		
8035/21	Patil Yogita Parshuram		
8036/21	Pawar Jagdish Ramesh		
8037/21	Warghade Nutan Devendra		
8038/21	Warghade Yogesh Bhalchandra		
8049/21	Kanhat Kunal Suresh		

01	07	08	14	15	21	22	28	29
P	P	P	P	P	P	P	P	P
P	P	P	A	P	P	P	P	P
P	P	A	P	P	P	P	P	P
A	A	A	A	A	A	A	A	A
P	A	P	P	P	P	P	P	P
P	P	P	P	P	P	P	A	A
P	P	P	A	P	P	P	P	P
P	P	P	P	P	P	P	A	P
P	A	P	P	P	P	P	P	P
P	P	A	P	P	P	A	P	P
P	P	P	P	P	P	P	P	P
P	P	P	P	P	P	P	A	P
P	P	P	P	P	P	P	P	P

[Signature]
 Head
 Department of Zoology
 Pawar
 (co-ordinator)

[Signature]
 Head
 Department of Zoology



[Signature]
 Principal
 Arts, Science & Commerce, College
 Mokhada, Dist. Palghar

Arts, Science & Commerce College, M

Month: February 202

Roll No.	Name of the Student	Catagary	Backlog
8027/21	Bagul Chetan Sakthayam		
8028/21	Bharat Devraj Suresh		
8029/21	Bhasme Ashwini Sakru		
8030/21	Gavandha Aika Shankar		
8031/21	Govind Sujit Ramesh		
8032/21	Janathe Aprna Santosh		
8033/21	Mahale Nishant Sadu		
8034/21	Moule Rahul Chandrakant		
8035/21	Patil Yogita Parshuram		
8036/21	Pawar Jagdish Ramesh		
8037/21	Warghade Nutan Devendra		
8038/21	Warghade Yogesh Bhalchandra		
8049/21	Kanhat Kunal Suresh		

4	5	11	12	18	19	25	26
P	P		P				P
P	P		P				P
P	P		P				P
A	A		P				A
P	P		P				P
P	P		P				P
P	P		P				P
P	P		P				P
P	P		P				P
P	P		P				P
P	P		P				P
P	P		P				P

Pawar
(co-ordinator)

Pawar
Head
Department of Zoology

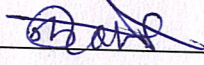
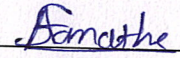

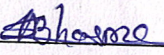
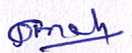
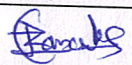
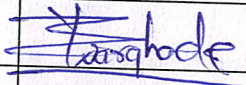
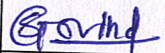
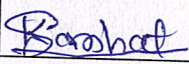

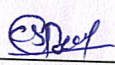
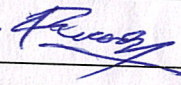


[Signature]
Principal
Arts, Science & Commerce, College
Mokhada, Dist. Palghar

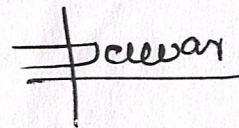
Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada
Short Term Course- Basics of Sericulture
Practical Examination

Class: S.Y.B.Sc.
Attendance Sheet

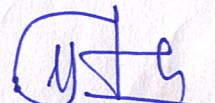
Date: 30/03/2022

Sr.	Roll No.	Name of the Student	Signature
1.	8037	wasghade Nutan Devenchandra	
2.	8032	Janathe Aparna Santosh	
3.	8035	Patil Yogita Parashyram	
4.	8029	Alame Ashwini Sakru	
5.	8033	Mahale Nishant Sadu	
6.	8034	Mawle Rahul Chandrakant	
7.	8038	Yogesh Bhalchandra wasghade	
8.	8031	Govind Sujit Ramesh	
9.	8049	Kanhatkunal Suresh	
10.	8028	Burad Jeevanj Suresh	
11.	8017	Bagul Chetan Sakharam	
12.	8036	Jaydis Rampsh Pawar	
13.			





[Dr. S.K. Pawar]


Principal

Arts, Science & Commerce, College
Mokhada, Dist. Palghar

Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada
Short Term Course- Basics of Sericulture
Theory Examination

Class: S.Y.B.Sc.
Attendance Sheet

Date: 28/03/2022

Sr.	Roll No.	Name of the Student	Signature
1.	8037	Warghade Nutan Datta Dnce.	
2.	8032	Janathe Aparna Santosh	
3.	8035	Patil Yogita Parashuram	
4.	8029	Bhosale Ashvini Sakai	
5.	8033	Mahale Nishant Sadu	
6.	8034	Mankar Sahul Chandrakant	
7.	8038	Yogesh Bhalchandra Warghade	
8.	8031	Gavind Sujit Ramesh	
9.	8049	Kanhad Kunal Suresh	
10.	8028	Bavot Devraj Suresh	
11.	8027	Begut Chetan Gathemay	
12.	8036	Jagdish Ramesh Patil	
13.			



[Dr. S.K. Pawar]

Principal

Course Coordinator

Head of the Department

Rayat Shikshan Sanstha's,
Arts, Science and Commerce College, Mokhada, Dist: Palghar
Department of Zoology
2021-22

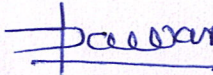
Short Term Course on Basics of Sericulture

Date: 24/03/2022

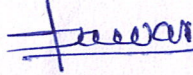
Notice

All the students of S.Y.B.Sc. are hereby informed that theory and practical examination of the Short-Term Course on **Basics of Sericulture** will be held as per the time table given below. All should remain present.

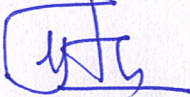
Sr. No.	Subject	Date	Time
1	Theory Examination	28/03/2022	11:00 am – 1:00 pm
2	Practical Examination	30/03/2022	11:00 am – onwards


Course Coordinator




Head,

Department of Zoology
Head / विभागाध्यक्ष
Department of Zoology / प्राणीशास्त्र विभाग


Principal
Arts, Science & Commerce, College
Mokhada, Dist. Palghar



Rayat Shikshan Sanstha's,

Arts, Science and Commerce College, Mokhada Dist. Palghar

Department of Zoology

Short Term Course Theory Examination

Basics of Sericulture

Class: S.Y.B.Sc

Day & Date: Monday, 28/03/2022

Time: 11:00 am – 1:00 pm

Total Marks: 50

Que. 1. Choose correct alternative.

Marks: 10

- i) _____ and _____ are the two main producer countries of the Silk.
- China, Japan
 - India, Indonesia
 - China, India
 - India, Brazil
- ii) The major protein found in the silk filament is...
- Sericin
 - Fibroin
 - Both a and b
 - None of the above
- iii) Muga silkworm is specific to which of the following state?
- Andhra Pradesh
 - Assam
 - Rajsthan
 - Chhattisgarh
- iv) Scientific name of the Eri Silkworm,
- Philosomia ricini*
 - Bombyx mori*
 - Antheraea royeli*
 - Antheraea assama*
- v) Host plant of the Tasar Silkworm is...
- Mulberry Tree
 - Castor Tree
 - Arjun Tree
 - Som Tree



- vi) A type of silkworm which completes more than 3 life cycles per year is called...
- Bivoltine
 - Univoltine
 - Multivoltine
 - None of the above
- vii) India is the only country that produces _____ silk.
- Muga
 - Tasar
 - Mulberry
 - Eri
- viii) Mulberry Silkworm is _____ type of silkworm.
- Univoltine
 - Bivoltine
 - Multivoltine
 - None of the above
- ix) _____ is a fungal disease of silkworm commonly observed in India.
- White Muscardine
 - Grasserie
 - Flacherie
 - Gattine
- x) The process of transfer of newly hatched larvae to rearing tray or to the leaves is called.
- Breeding
 - Brushing
 - Spinning
 - Crossing

Que.2. Write short note. (Any FOUR)

Marks: 20

- Sericulture equipments.
- Applications of the sericulture.
- Types of the silkworms.
- Bacterial diseases of the silkworm.
- Incubation of the silkworm eggs.

Que.3. Answer the following. (Any TWO)

Marks: 20

- Explain diseases of the silkworm
- Describe rearing of the silkworm.
- Explain life cycle and morphology of the silkworm.



Rayat Shikshan Sanstha's,

Arts, Science and Commerce College, Mokhada Dist. Palghar

Department of Zoology

Short Term Course Practical Examination

Basics of Sericulture

Class: S.Y.B.Sc.

Day & Date: Wednesday, 30/03/2022

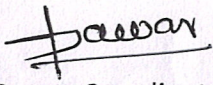
Time: 11:00 am onwards

Total Marks: 50

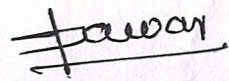
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- | | |
|---|---------------------------|
| Q.1) Describe the different rearing techniques of silkworm. | 12 |
| Q.2) Describe in brief life cycle of silk moth. | 12 |
| Q. 3) Identify and describe disease of silkworm.
(Bacterial) | 08 |
| Q. 4) Explain the method of incubation of silkworm eggs. | 08 |
| Q. 5) Spotting. | 10 |
| a. Identify and comment on it. | Cocoon of silkworm |
| b. Identify and describe. | Pebrine |
| c. Identify and give economic importance. | Silk thread |
| d. Identify and describe. | Uzifly |
| e. Identify and comment on it. | Chandrika |

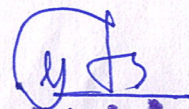
Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Mokhada Dist. Palghar
Department of Zoology
Short Term Course on Basics of Sericulture
Class: S.Y.B.Sc
2021-22
Mark Sheet

Roll No.	Name of the student	Theory (50)	Practical (50)	Total (100)	Grade
8027	Bagul Chetan Sakharam	36	40	76	A
8028	Bharat Devraj Suresh	31	42	73	A
8029	Bhasme Ashwini Sakru	34	31	65	B
8030	Gavandha Alka Shankar	Ab	Ab	—	—
8031	Govind Sujit Ramesh	37	36	73	A
8032	Janathe Aparna Santosh	31	32	63	B
8033	Mahale Nishant Sadu	33	43	76	A
8034	Maule Rahul Chandrakant	38	36	74	A
8035	Patil Yogita Parshuram	27	26	53	C
8036	Pawar Jagdish Ramesh	20	40	60	B
8037	Warghade Nutan Devendra	25	31	56	C
8038	Warghade Yogesh Bhalchandra	32	42	74	A
8049	Kanhat Kunal Suresh	35	46	81	O


Course Coordinator
[Dr. S.K. Pawar]




Head of the Department
Department of Zoology / प्राणीशास्त्र विभाग


Principal
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Mokhada, Dist. Palghar

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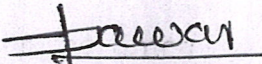
Department of Zoology

Short Term Course on Basics of Sericulture

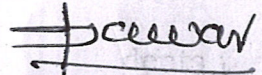
Report

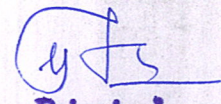
Date: 04/04/2022

In 2021-2022, the Short term course entitled Basics of Sericulture was conducted by department of Zoology. Total 13 students of S.Y.B.Sc. were admitted to this course. The well designed syllabus was completed in stipulated time as per the timetable. To assess the knowledge obtained by students the exam was conducted. Total 12 students appeared in the exam and all 12 have successfully completed the course.


Course Coordinator




Head / विभागाध्यक्ष
Department of Zoology / जीवशास्त्र विभाग


Principal
Arts, Science & Commerce, College
Mokhada, Dist. Palghar

Course Coordinator

Department of Zoology



Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabodhini

CERTIFICATE

This is to certify that Shri / Smt Janathe Aparna Santosh

..... (Class S.Y.B.Sc. Zoology) of

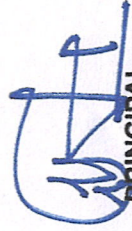
(College) Arts, science and Commerce College

Mokhada, Dist. Palghar has successfully completed

a short term course in Basics of Sericulture

Academic year 2021- 2022 (From 01/10/2021 To 30/03/2022) and

secured B Grade.


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Mokhada, Dist. Palghar





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Karmaveer Vidyaprabodhini



Chairman
Karmaveer Vidyaprabodhini



Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabodhini

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This is to certify that Shri / Smt Govind Sujit Ramesh

..... (Class S.Y.B.Sc. Zoology) of

(College) Arts, Science and Commerce College,

Mokhada Dist. Palghar has successfully completed

a short term course in Basics of Sericulture

Academic year 2021 - 2022 (From 01/10/2021 To 30/03/2022) and

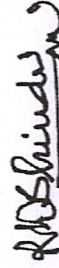
secured A..... Grade.




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Karmaveer Vidya Prabodhini



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This is to certify that S^hri / Smt Bhasme Ashwini Sakru

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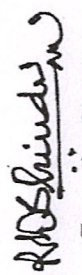
Academic year 2021 - 2022 (From 01/10/2021 To 30/03/2022) and

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Chairman
Karmaveer Vidyaprabodhini



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Karmaveer Vidya Prabodhini**

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This is to certify that Shri / Smt Barat Devraj Suresh

..... (Class S.Y. B.Sc. Zoology) of

(College) Arts, Science and Commerce College,

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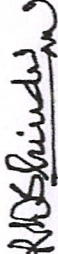
Academic year 2021 - 2022 (From 01/10/2021 To 30/03/2022) and

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Karmaveer Vidya Prabodhini

259

CERTIFICATE

This is to certify that Shri / Smt Bagu chetan Sakham

..... (Class S.Y. B.Sc. Zoology) of

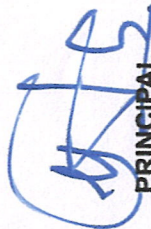
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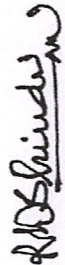
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