

India leads in the production of silk and occupies second position in the world. Sericulture is an agro-based industry. The cultivation of silkworm to produce silk is called silk farming / sericulture. The very nature of this industry with its rural based on-farm and off-farm activities and enormous employment generation potential has attracted the attention of the planners and policy makers to recognize the industry among one of the most appropriate avenues for socio-economic development of a largely agrarian economy like India.

Associate Professor & HOD

Department of Zoology

2) Dr. Shivaraj Y

Assistant Professor

Department of Zoology

**OBJECTIVE OF THE COURSE**

- To develop an expert manpower to handle the own sericulture units/ entrepreneurship/ Corporate sector units.
- To give scientific knowledge about mulberry cultivation, silkworm rearing techniques to the students.

**LEARNING OUTCOMES**

- Gain skill with hands on training on mulberry cultivation and carry forward to field.
- Gain skill with hands on training on silkworm egg production and support grainage activity.
- Acquire knowledge and develop skill in silkworm rearing and support silkworm farming.



TARANATH SHIKSHANA SAMSTHE  
LAXMI VENKATESH DESAI COLLEGE,  
RAICHUR  
(Affiliated to Gulbarga University, Kalaburagi  
Re-Accredited with "B" grade by NAAC)

Department of Zoology  
Introducing

Add-on course

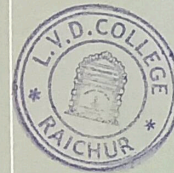
On  
"SERICULTURE"

For 30 Hours

Eligibility: XII Passed (BA/ B. Sc /BCA)

Course Start Date: 18-08-2022.

Dr. VENKATESH B DEVARU  
PRINCIPAL  
L.V.D College, Raichur.



Dr. Jayateertha.N.S  
IQAC CO-ORDINATOR

Dr. Malkanna  
HOD ZOOLOGY

A warm welcome to all the students & Staff



TARANATH SHIKSHANA SAMSTHE



## LAXMI VENKATESH DESAI COLLEGE, RAICHUR

(Affiliated to Gulbarga University, Kalaburagi Re-Accredited with "B" grade by NAAC)

Dr. Venkatesh B. Devaru, *M.Sc., Ph.D., MBA.*  
PRINCIPAL

Office of the Principal  
Ph: (08532)-240286, 240707  
Fax: + 918532 240707  
E-mail: [lvdrer@gmail.com](mailto:lvdrer@gmail.com)  
Website: [www.lvdcollege.com](http://www.lvdcollege.com)

**Date:**

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add-on course on "SERICULTURE" with the duration of 30 hours introduced in 2022. The said programme is apart from the existing course curriculum.

Head of the Department

Principal  
PRINCIPAL  
L.V.D. College, RAICHUR.

Date: 02.08.2022

To  
The Principal,  
LVD College, Raichur.


From  
Head of Department,  
Department of Zoology

Respected Sir,

Sub: Permission to start an Add - On course.

With respect to the above sited subject I, the undersigned request you to grant permission to start an Add-on course titled "**SERICULTURE**" to B.Sc I/II/III year students. The details of syllabus and duration are enclosed. This course helps students to build up their skills. Kindly grant the permission.

Thanking You,

  
PRINCIPAL  
L.V.D. College, RAICHUR-03.

  
Yours Faithfully

HoD



TARANATH SHIKSHANA SAMSTHE



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Date: 08-08-2022

**ORDER**

Sub: Meeting of Board of Studies members

A meeting of the following BOS constituted is hereby convened on 08-08-2022 at 10.30 AM in the Department of Zoology, L.V.D College, Raichur.

**BOARD OF APPOINTMENT OF BOS MEMBERS FOR THE ADD-ON COURSE**

**"SERICULTURE"**

Sl. No	Name of the Faculty	Designation	Sign
1	Mr. Basavaraj. K Assistant Professor Department of Zoology G. F.G College, Sindhanur	Chairman	
2	Mr. Rajesh. M Assistant Professor Department of Zoology G. F.G College, Sindhanur	External Member	
3	Mr. Hanamantray Assistant Professor Department of Zoology L.V.D College, Raichur	Internal Member	

The Chairman and the members are requested to make it convenient to attend the BOS Meeting

  
PRINCIPAL

PRINCIPAL  
L.V.D. College, RAICHUR-03.



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Website: [www.lvdcollege.com](http://www.lvdcollege.com)

**Date: 02-08-2022**

To,

Mr. Basavaraj. K  
Assistant Professor  
Department of Zoology  
G. F.G College, Sindhanur

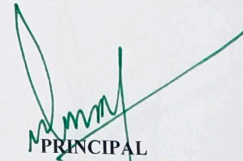
Sub: Invitation for Board of Studies meeting as Chairman on 8<sup>th</sup> August 2022 regarding.

Respected sir,

With respect to the above cited subject, we take privilege in inviting you for the Board of Studies Meeting as Chairman for Add-on course "SERICULTURE" which will be conducted on 8<sup>th</sup> August 2022 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2022-23. In this regard, we request for your valuable suggestion in revising the Curriculum & Syllabus based on latest technology which can help the student's community to shape themselves for their bright future. Hence, kindly accept and confirm your visit for attending the Board of Studies meeting. Kindly confirm your visit by informing to the Principal.

With Warm Regards

HoD



PRINCIPAL

PRINCIPAL  
L.V.D. College, RAICHUR-03.



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**Date: 02-08-2022**

To,

Mr. Rajesh. M

Assistant Professor

Department of Zoology

G. F.G College, Sindhanur

Sub: Invitation for Board of Studies meeting as External Member on 8<sup>th</sup> August 2022 regarding.

Respected sir,

With respect to the above cited subject, we take privilege in inviting you for the Board of Studies Meeting as External Member for Add-on course "SERICULTURE" which will be conducted on 8<sup>th</sup> August 2022 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2022-23. In this regard, we request for your valuable suggestion in revising the Curriculum & Syllabus based on latest technology which can help the student's community to shape themselves for their bright future. Hence, kindly accept and confirm your visit for attending the Board of Studies meeting. Kindly confirm your visit by informing to the Principal.

With Warm Regards

HoD

PRINCIPAL

PRINCIPAL  
L.V.D. College, RAICHUR-03.

To  
The Principal,  
L.V.D College,  
Raichur.

Date: 05-08-2022

Respected Sir,

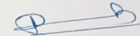
**Sub: Acceptance to be a Member of BOS.**

With reference to the above-cited subject, I Mr. Rajesh. M Assistant Professor  
Department of Zoology G. F.G College, Sindhanur received invitation letter to be a Member of  
BOS, for the Add-on Course to be conducted by your college.

Hence, I give my consent and accept your invitation as a BOS Member.

Thanking You,

Yours Sincerely



To  
The Principal,  
LVD College,  
Raichur.

Date: 06-08-2022

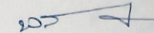
Respected Sir,

**Sub: Acceptance to be the chairman of BOS.**

With reference to the above-cited subject, I Mr. Basavaraj. K Assistant Professor Department of Zoology G. F.G College, Sindhanur received invitation letter to be a Chairman of BOS, for the Add-on Course to be conducted by your college. Hence, I give my consent and accept your invitation as a BOS Chairman.

Thanking You,

Yours Sincerely







TARANATH SHIKSHANA SAMSTHE



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DEPARTMENT OF ZOOLOGY

NOTICE

Based on the feedback analysis and Suggestion of students, college has introduced an Add-on course "SERICULTURE" with the duration of 30 hrs. Since students are eligible to get enrolled.

After the completion of the course the beneficiaries get good scope on employability. The total seats are restricted to 30 only.

Interested students register their name to the program co-coordinator on or before 10-08-2022.

  
PRINCIPAL  
PRINCIPAL  
L.V.D. College, RAICHUR.



**DEPARTMENT OF ZOOLOGY**  
**SERICULTURE**  
**COURSE OVERVIEW**

**35 Hours**

India leads in the production of silk and occupies second position in the world. Sericulture is an agro-based industry. The cultivation of silkworm to produce silk is called silk farming / sericulture. The mulberry leaves are fed to silkworm larvae and after the moulting process, the larva climbs a twig and spins silk cocoons with its fluid secretions. The cocoons are placed in hot water and the silk filaments separates which are then processed into yarns.

The sericulture industry stands for livelihood opportunity for millions owing to high employment oriented, low capital intensive and remunerative nature of its production. The very nature of this industry with its rural based on-farm and off-farm activities and enormous employment generation potential has attracted the attention of the planners and policy makers to recognize the industry among one of the most appropriate avenues for socio-economic development of a largely agrarian economy like India.

**AIMS AND OBJECTIVES:**

The course is based on following objectives:

- i. To develop an expert manpower to handle the own sericulture units/ entrepreneurship/ Corporate sector units.
- ii. To give scientific knowledge about mulberry cultivation, silkworm rearing techniques to the students.
- iii. To make the student aware about Soil to Silk concept, Sericulture Extension and innovative technology /techniques etc.
- iv. To train the students in compressive Silk production techniques.

**ELIGIBILITY:**

Eligibility of the course : 10+2  
 Fees structure : Unpaid course  
 Intake capacity : Total numbers of seats 30  
 Duration of the course : duration of the course will be four month.

**SYLLABUS**

**UNIT I:**

**(03 Marks)**

**History of Sericulture**

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

**Unit II:**

**(10 Marks)**

**Rearing of silkworms:**

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

**Unit III:**

**(10 Marks)**

**Harvesting**

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:**

**(02 Marks)**

**Diseases and Preventions**

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

**LEARNING OUTCOMES:**

1. Gain skill with hands on training on mulberry cultivation and carry forward to field.
2. Gain skill with hands on training on silkworm egg production and support grainage activity.
3. Acquire knowledge and develop skill in silkworm rearing and support silkworm farming.

**UNIT VI: PRACTICALS:**

**(10 Marks)**

P-1 To study the life cycle of *Bombyx mori*.

P-2 To study pests of silkworm.

P-3 To study protozoan, viral, fungal and bacterial diseases.

P-4 Silkworm rearing technology

P- 5 Visit sericulture canters.

**REFERENCES**

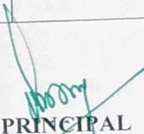
1. Anonymous (1972): FAO Manuals on Sericulture Vol. I – IV
2. Hanumappa (1978): Sericulture for Rural Development, Himalaya Publications, Delhi.
3. Gubrajani, M.L. (1986): Silk Dyeing, printing and finishing, IIT, New Delhi.
4. Ferguson, A. (1980): Biochemical Systematics and Evolution: Blankie Publications: Glasgo, London.
5. Yokoyama, T. (1959): Silkworm Genetics illustrated: Japan Society for Promotion of Science, Tokyo.
6. King, L.A. and Posse R.D. (1990): Baculovirus Expression System? Chapman and Hall, London.

**TARANATH SHIKSHANA SMASHTI**  
**LAXMI VENKATESH DESAI COLLEGE RAICHUR - 584103**  
**ADD ON COURSE TIME TABLE FOR B. Sc I, III, V SEMESTER**

**DEPARTMENT OF ZOOLOGY**  
Semester time table for the year 2022-23

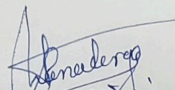
Days↓ Time →	9.30-10.20 AM	10.20-11.10 AM	11.10-12.00 PM	12.00-12.50 PM	12.50-1.40 PM	1.40-2.30 PM	2.30-3.20 PM	3.20-4.10 PM	4.10-5.10 PM
Monday									
Tuesday									
Wednesday									ADD ON COURSE
Thursday									ADD ON COURSE
Friday									ADD ON COURSE
Saturday									ADD ON COURSE

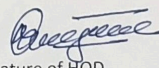
  
**HEAD OF THE DEPARTMENT**  
Head of the Department **Zoology**

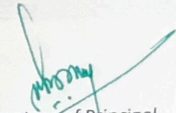
  
**PRINCIPAL**  
L.V.D. College, RAICHUR-03.

Laxmi Venkatesh Desai College, Raichur  
 Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade  
 Attendance Sheet: 2022-2023

			Department of Zoology																	Faculty Name: Mr. HANMANTRAY													
Class:			Course title: SERICULTURE																														
Sl.No	Register No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	S2100904	Aishwarya HM	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
2	S2100992	Aruna N	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
3	S2100971	Keerthana	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
4	S2100032	Sahana Hiremath	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
5	S2100041	Shaik Afreen	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
6	S2100947	DM Kalpana	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
7	S2100928	B Veena	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
8	S2100976	Kumara	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
9	S2100060	Spoorthi G S	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
10	S2100062	Srinita Kumba	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
11	S2100996	Naashith Tabassum	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
12	S2100037	Samreen	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

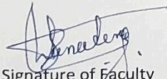
  
Signature of Faculty

  
Signature of HOD  
Head of the Department Zoology

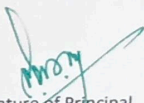
  
Signature of Principal  
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			Department of Zoology																	Faculty Name: Mr. HANMANTRAY													
Class:			Course title: SERICULTURE																														
Sl. No	Register No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	U23AB21S0033	BALARAM PAWAR	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
2	U23AB21S0038	SRINIVAS 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
3	U23AB21S0044	KUMARA	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
4	U23AB21S0045	AKHILA K	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
5	U23AB21S0047	CHANDRASHEKAR	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
6	U23AB21S0052	R INDU	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
7	U23AB21S0061	SNEHAKUMARI	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
8	U23AB21S0066	K AISHWARYA	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
9	U23AB21S0067	PAMPANA GOUDA	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
10	U23AB21S0068	CHANDRASHEKAR	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
11	U23AB21S0071	SRUSHTI PATIL	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
12	U23AB21S0074	RAVI PRASAD	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

  
Signature of Faculty

  
Signature of HOD  
Head of the Department Zoology

  
Signature of Principal  
PRINCIPAL  
L.V.D. College, RAICHUR-03.

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**Course Structure and Examination Scheme:**

Course No:	Course Name	Hours (Classes)	Field visit	Internal Marks	External marks		Total marks
					Theory	Practical	
1	SERICULTURE	30	10	10	60	20	100

TARANATH SHIKSHANA SAMSTHE  
LAXMI VENKATESH DESAI COLLEGE, RAICHUR  
SUBJECT: ZOOLOGY  
INTERNAL ASSESSMENT  
COURSE TITLE: SERICULTURE

**Time: 1 hours**

**Marks: 10**

Q.1. Answer the following (any two)

**2X05=10**

1. Explain the life cycle of *Bombyx mori*.
2. Name the major four (4) types of silkworms (Scientific name) with their host plants (Scientific name).
3. Define voltinism. Mention the characteristics features of a typical rearing house of silkworm.



TARANATH SHIKSHANA SAMSTHE  
LAXMI VENKATESH DESAI COLLEGE, RAICHUR  
SUBJECT: ZOOLOGY  
THEORY EXAM  
COURSE TITLE: SERICULTURE

Time: 3 hours

Marks: 60

Q.1. Answer the following (any three)

3X20=60

1. What is Silk? Why silk is called the Golden fibre, of textile industry? Mention four (4) major properties of silk.
2. What is Silk gland? Describe the structure of Silk gland with suitable diagram.
3. Name the protozoan-and-bacterial disease of Silkworm, their Pathogen and control measures.
4. Name two diseases of aquarium fish. Write some steps for proper maintenance of an Aquarium.
5. Write short notes on (any two):  
(i)Pests of Silk worm. (ii)Non Mulberry Sericulture. (iii)Rearing appliances of Silkworms.  
(iv)Prospects of Sericulture in India.

TARANATH SHIKSHANA SAMSTHE  
LAXMI VENKATESH DESAI COLLEGE, RAICHUR  
SUBJECT: ZOOLOGY  
PRACTICAL EXAM  
COURSE TITLE: SERICULTURE

Time: 1 hours

Marks: 30

Q. Answer the following

2X10=20

1. Identify the photograph of the given animals and comment. Any two
2. Field study report (visit to Sericulture centre) and viva on it

1X10=10

TARANATH SHIKSHANA SAMSTHE  
LAXMI VENKATESH DESAI COLLEGE, RAICHUR  
 SUBJECT: ZOOLOGY  
 MARKS LIST

COURSE TITLE: SERICULTURE

Sl. No	Reg. No	Name of the Student	Internal Marks	External Marks		
				Theory	Practical	Total
1	S2100904	AISHWARYA HM	10	59	30	99
2	S2100992	ARUNA N	09	58	29	96
3	S2100971	KEERTHANA	10	59	21	90
4	S2100032	SAHANA HIREMATH	10	54	26	90
5	S2100041	SHAIK AFREEN	09	56	26	91
6	S2100947	DM KALPANA	09	57	28	94
7	S2100928	B VEENA	08	59	29	96
8	S2100976	KUMARA	09	53	30	92
9	S2100060	SPOORTHY G S	10	52	28	90
10	S2100062	SRINITHA KUMBA	08	51	26	85
11	S2100996	NAASHITH TABASSUM	10	54	30	94
12	S2100037	SAMREEN	10	56	30	96
13	U23AB21S0033	BALARAM PAWAR	10	58	30	98
14	U23AB21S0038	SRINIVAS P	10	59	30	99
15	U23AB21S0044	KUMARA	09	60	24	93
16	U23AB21S0045	AKHILA K	10	57	24	91
17	U23AB21S0047	CHANDRASHEKAR	10	53	28	91
18	U23AB21S0052	RINDU	08	52	24	84
19	U23AB21S0061	SNEHAKUMARI	07	54	26	87
20	U23AB21S0066	K AISHWARYA	10	56	26	92
21	U23AB21S0067	PAMPANA GOUDA	09	59	26	94
22	U23AB21S0068	CHANDRASHEKAR	10	56	29	95
23	U23AB21S0071	SRUSHTI PATIL	07	59	26	92
24	U23AB21S0074	RAVI PRASAD	07	56	21	86

*[Signature]*

Head of the Department Zoology

*[Signature]*

PRINCIPAL  
 L.V.D. College, RAICHUR-03

10

**LAXMI VENKATESH DESAI COLLEGE, RAICHUR**

**Affiliated to Gulbarga University, Kalaburagi & Raichur University, Raichur**

**Re-Accredited by NAAC with B Grade**

Department of Zoology

Report of Add-on course

Add-on course: **SERICULTURE**

Duration: 30 Hours

Started on: 18-08-2022.

Completed on: 29-10-2022

Name of the faculty: Mr. Hanmantray

Total No of students admitted: 24

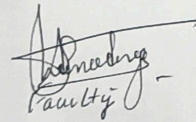
Total No of classes taken: 30

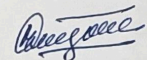
Total No of students benefited: 24

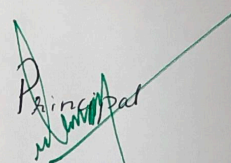
**REPORT:**

The aim of the course helps the students to increase their knowledge about silkworms (related to their lesson fibre to fabric) and to develop their skills. Department of Zoology has offered this course for B.Sc. I, II, III students. This course helps students to know the job opportunity in the Sericulture department. This course was conducted during the 18<sup>th</sup> 2022 Aug to 29<sup>th</sup> Oct 2022. During this period the lectures and practicals were conducted by resource faculties. 24 students have taken advantage of this course.

After completing this course the students were came to know the importance of sericulture and job opportunities and its main tool for the economic reconstruction of rural areas.

  
Faculty

  
Ho D  
Head of the Department Zoology

  
PRINCIPAL  
L.V.D. College, RAICHUR-03.



Taranath Shikshana Samsthe

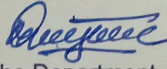
## LAXMI VENKATESH DESAI COLLEGE RAICHUR

(Re-Accredited by NAAC with 'B' Grade)


### Certificate

This is to Certify that Miss. / Mr. BALARAM PAWAR  
of Bsc II Sem U23AB2150033 has completed the Certificate Course in  
SERICULTURE

Conducted by the Department of ZOOLOGY from  
18.08.2022 to 29.08.2022

  
Head of the Department  
Head of the Department Zoology



  
L.V.D. COLLEGE RAICHUR-03