



SPVVS'S

**G.P.PORWAL ARTS, COMMERCE &
V.V.SALIMATH SCIENCE COLLEGE,
SINDGI**



BROCHURE



DEPARTMENT OF ZOOLOGY

**CERTIFICATE COURSE
2019-20**



TITLE: SERICULTURE

DATE: FROM 03/02/2020 TO 29/02/2020



Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College,
SINDGI-586128.

Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234



S.P.V.V.S'S
G.P.PORWAL ARTS, COMMERCE AND
V.V.SALIMATH SCIENCE COLLEGE,
SINDGI – 586 128
Dist: Vijayapur. Karnataka State

NAME OF THE COURSE

SERICULTURE

OFFERED BY

DEPARTMENT OF
ZOOLOGY

COURSE CODE

CCZOOSC 19-20

COURSE COORDINATOR

SHRI D.M.PATIL
HOD, ZOOLOGY



DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE DETAILS

INSTRUCTIONAL DESIGN

30 HOURS (This course is of Thirty Hrs duration which include Theory and Practical)

ABOUT COLLEGE

G.P.Porwal Arts, Commerce & V.V.Salimath Science College is the first science college in Sindagi Taluk of Vijayapur district which provides education in science stream at U.G. level to the educationally, economically and socially backward students of this Taluk. Since 1988, many students are graduated with B.Sc in Zoology is one of the optional subject.

IQAC of G.P.Porwal Arts, Commerce & V.V.Salimath Science College, in its meeting decided to introduce few self financed certificate courses from their academic sessions 2019-20. The continuation of these courses will depend on interest and participation of students.

ELIGIBILITY

All students belonging to VI semester are eligible to enroll for the course.

SCOPE OF THE COURSE

The course paves way for Entrepreneurship and career opportunities in Central Government and State Government Organizations.

OBJECTIVES

- Motivating the farmers to plant high yielding mulberry varieties to increase income and productivity.
- Imparting training in mulberry cultivation, silkworm rearing and silk reeling.
- Assist in procurement of improved rearing equipment and construction of separate rearing house.

BENEFITS OF SERICULTURE

- Sericulture provides gainful employment, economic development.
- Improvement in the quality of life to the people in rural area and it plays an important role in anti poverty.
- Prevents migration of rural people to urban area in search of employment.

COURSE OUTCOMES

- **CO1:** Gives knowledge of silk worm rearing, mulberry cultivation, pests and diseases associated with silk worm, mulberry and various process involved in silk production.
- **CO2:** It is an agro based cottage industry in India that enables them to get self-employment
- **CO3:** Sericulture is a comprehensive subject that gives in depth knowledge of the study of silkworms both physiological as well as commercial purposes including the various processes involved in the formation of silk
- **CO4:** Students gain knowledge about various systems study of silkworms and cocoons, other defective cocoons
- **CO5:** Reeling and significant diseases seen in the silkworms
- **CO6:** Students feel confident in teaching Sericulture as well as executing research project

COURSE CONTENT

Unit: 1

10 Hrs

Defination, History of Silk, Types of Silkworms and Non-mulberry Sericulture, Life cycle of *Bombyx mori*, Structure of Silk gland and Secretion of Silk.

Unit: 2.

10 Hrs

Rearing house and rearing appliances, Disinfectants: Formalin, Bleaching powder, RKO silkworm rearing technology, Early age and Late age rearing types of mountage, spinning, harvesting and storage of cocoons.

Unit: 3.

10 Hrs

Silkworm diseases: Protozoan, viral, fungal and bacterial Control and prevention of pests and diseases, Prospectus of sericulture
In India, Sericulture industries in different States, visit to various Sericulture centres.

BOARD OF STUDIES

- | | | |
|-------------------------|---|----------------------|
| 1. Prof. R.S.Bhooshetti | : | Chairman & Principal |
| 2. Prof. D.M.Patil | : | Member |
| 3. Prof. D.M.Sarashetti | : | Member |

THANK YOU


Coordinator IQAC
G. P. PORWAL ARTS, COM &
V. V. SALIMATH Sc. College.
SINDGI-586128.


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 523-

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Affiliated to Rani Channamma University Belagavi (Karnataka State)

Accredited at B (2.42 CGPA) by NAAC

From,
The HOD,
Department of Zoology,
GPP & VVS College,
Sindgi.

Date: 12-02-2020

To,
The Principal,
GPP & VVS College,
Sindgi.

Sub: Permission to start certificate course on "Sericulture"

Respected Sir,

We the faculty members of Zoology Department have decided to start certificate course on "Sericulture" for B.Sc. VI Sem students. Hence , we kindly request you to give the permission to start the certificate course for the academic year 2019-20. We hope that the authority will consider the request and oblige.

Place: Sindgi

Date: 12-02-2020

Yours faithfully


HOD
Dept. of Zoology,
G.P.Porwal Arts, Commerce & Science
College, SINDGI. Dist: Vijayapur


Coordinator IQAC
G. P. PORWAL ARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI-586128


Chairperson IQAC
Principal,
G. P. Porwal Arts, Comr
V. V. Salimath Sc. Colle
SINDGI-586128. College Cod

S.P.V.V.S.S.
G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE
SINDGI – 586 128

Dist: Vijayapur) Affiliated to Rani Channamma University-Belagavi (Karnataka State
Accredited at B (2.42 CGPA) by NAAC
E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 9611032604

Date: 13/02/2020

To,
Head,
Department of Zoology

Academic Year: 2019-20

Sub: Permission to conduct Certificate Course.

Ref: Your letter dated:12/02/2020

Sir/Madam,

With reference to subject cited above I here with permit you to conduct Certificate Course on "Sericulture" for B.Sc. VI semester students for the academic year 2019-2020

Thanking you,

Place: Sindgi

Date: 13/02/2020

HOD
Dept. of Zoology,
G.P.Porwal Arts, Commerce & Science
College, SINDGI. Dist: Vijayapur

Coordinator, IQAC

Coordinator IQAC
G. P. PORWAL ARTS, COM. &
V. V. SALIMATH Sc. College.
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Chairperson IQAC

Principal,

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COLLEGE, SINDGI – 586 128 (Dist : Vijayapur. Karnataka State)

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E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile : 9611032604

Ref.No.... GPP/CC/ZOO/03/2019-20

Date: 28/02/2020

To,

Prof. Sudhakar.V.Chavan

Shri. Padmaraj College of Education

Sindagi-586128, Dist .Vijayapur

Subject : Regarding appointment letter as Zoology BOS Member.

Dear Sir,

With reference to the above cited subject, I feel very happy to inform you that you have been appointed as Zoology BOS Member for Certificate course is introduced by Department of Zoology ON TOPIC-"SERICULTURE" for the academic year 2019-2020. Kindly accept the same and do the needful.

Thanking You

HOD

HOD

Dept. of Zoology,
G.P. Porwal Arts, Commerce & Science
College, SINDGI, Dist. Vijayapur

Coordinator IQAC
G. P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College,
SINDGI-586128

PRINCIPAL,
G. P. PORWAL ARTS, COM. &
V.V. SALIMATH Sc. College,
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Department of Zoology
Certificate Course: 2019-20

Certificate course on "Sericulture"

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IQAC of G.P.Porwal Arts ,Commerce & V.V.Salimath Science College in its meeting decided to introduce few self financed certificate courses from their academic sessions 2019-20. The continuation of these courses after three years will be depend on interest and participation of students, course outcomes and financial provisions from the institution.

Objectives:

- Sericulture or silk farming, is the cultivation of silk worms to produce silk. Although there are several commercial species of silk worms, Bombyx mori (the caterpillar of the domestic silk moth) is the most widely used and intensively studied silk worm .
- Silk was believed to have first been produced in China as early as Neolithic period. Sericulture has become an important cottage industries in countries such as Brazil, China, France , India, Italy ,Japan, Korea and Russia.
- China and India are the two main producers of silk with more than 60% of the world's annual production .

Instructional Design:

This course is of three months duration which includes theory classes.

Course structure and examination scheme:

Course No	Course Name	Theory Classes	Theory Marks	Total Marks
01	Sericulture	30 hrs	20	20

Eligibility: All students belonging to VI semester are eligible to enroll for the course.

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SINDGI-586128

Chairperson IQAC
Principal,
G. P. Porwal Arts, Com. & Science College



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DEPARTMENT OF ZOOLOGY

Certificate Course "SERICULTURE"

SUMMARY:

Sericulture is an industry that is characterized by a two-step process, the cultivation of mulberry trees and the rearing of silkworms on mulberry leaves to produce cocoons. A cocoon is an oval- to football-shaped object made by a mature silkworm larva by spinning silk proteins; the silkworm larva develops into a pupa inside it. Silkworms are monophagous insects, feeding only on mulberry leaves (Moraceae, genus Morus). Because the mulberry leaves must be fresh, it is difficult to transport them over long distances or store them for long periods. This has resulted in the rearing of silkworms and cultivation of mulberry trees generally forming a single enterprise. Mulberry tree cultivation starts with the production of mulberry seedlings, followed by mulberry tree training, cultivation, harvesting, and insect pest control. Silkworm rearing includes preservation of silkworm eggs, management of rearing rooms, handling of rearing equipment, prevention of silkworm diseases, supplying mulberry leaves, and collecting mature larvae to transfer to the cocooning frame.


**Chairperson IQAC
Principal,**

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Coordinator IQAC

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HOD

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DEPARTMENT OF ZOOLOGY

Certificate Course Out Comes of "SERICULTURE"

CO1 Gives knowledge of silk worm rearing, mulberry cultivation, pests and diseases associated with silk worm, mulberry and various process involved in silk production.

CO2 It is an agro based cottage industry in India that enables them to get self-employment

CO3 Sericulture is a comprehensive subject that gives in depth knowledge of the study of silkworms both physiological as well as commercial purposes including the various processes involved in the formation of silk

CO4 Students gain knowledge about various systems study of silkworms and cocoons, other defective cocoons

CO5 Reeling and significant diseases seen in the silkworms

CO6 Students feel confident in teaching Sericulture as well as executing research projects


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College, SINDGI. Dist: Vijayapur

DEPARTMENT OF ZOOLOGY

CERTIFICATE COURSE

2019-20

SERICULTURE

Total Teaching -30hrs

Unit 1: Introduction

Sericulture: Definition, history; Silk Types of silkworms, Mulberry and non-mulberry Sericulture

5hrs

Unit 2: Biology of Silkworm

Life cycle of *Bombyx mori* Structure of silk gland and secretion of silk

5hrs

Unit 3: Rearing of Silkworms

Rearing house and rearing appliances Disinfectants: Formalin, bleaching powder, RKOSilkworm rearing technology: Early age and Late age rearing Types of mountages Spinning, harvesting and storage of cocoons

10hrs

Unit 4: Silk worm Diseases

: Protozoan, viral, fungal and bacterial Control and prevention of pests and diseases

5hrs

Unit 5: Entrepreneurship in Sericulture

Prospectus of Sericulture in India: Sericulture industry in different states., Visit to various sericulture centres.

5hrs

SUGGESTED READINGS

1. Handbook of Practical Sericulture: S.R. Ullal and M.N. Narasimhanna CSB, Bangalore
2. Appropriate Sericultural Techniques: Ed. M. S. Jolly, Director, CSR & TI, Mysore.
3. Handbook of Silkworm Rearing: Agriculture and Technical Manual-1, Fuzi Pub. Co. Ltd., Tokyo, Japan 1972.
4. Manual of Silkworm Egg Production: M. N. Narasimhanna, CSB, Bangalore 1988.
5. Silkworm Rearing: Wupang—Chun and Chen Da-Chung, Pub. By FAO, Rome 1988.
6. A Guide for Bivoltine Sericulture: K. Sengupta, Director, CSR & TI, Mysore 1989.
7. Improved Method of Rearing Young age silkworm: S. Krishnaswamy, reprinted CSB, Bangalore, 1986.


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DEPARTMENT OF ZOOLOGY

Certificate Course
"Sericulture"

THEORY TIME TABLE: 2019-20

DAY	TIME	NAME OF THE FACULTY
	Theory	
Monday	2.00pm – 3.00pm	1. Prof. D.M. Patil
Tuesday	2.00pm – 3.00pm	2. Prof. D.M.Sarashetti
Wednesday	2.00pm – 3.00pm	

Date: Feb - 2020


Coordinator IQAC
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Date: 30-01-2020

Department of Zoology

Notice

It is hereby informed to all the students of B.Sc. VI semester that
Certificate Course on "Sericulture" will be started in our college from ^{Feb}-2020.
Hence interested students may apply on or before ^{Feb}-2020.

Contact:

Prof. D.M.Patil

Prof. D.M.Sarashetti


Coordinator IQAC
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DEPARTMENT OF ZOOLOGY

Certificate Course

"Sericulture"

Student Attendance-2019-20

Sl no.	Name of the students	Class	Signature
1	Pradeep.H.Ghanti	VI Sem	
2	Laxmi.S.Talwar	VI Sem	
3	Vidyashree	VI Sem	
4	Nikhita.Math	VI Sem	
5	Mahesh.Biradar	VI Sem	
6	Shivashankar.R.Dyamagond	VI Sem	
7	Pavankumar	VI Sem	
8	Manjunath.Patil	VI Sem	
9	Pooja.K.Teggihalli	VI Sem	
10	Adarsh Laxman Hachdad	VI Sem	
11	Arif Tamboli	VI Sem	
12	Ayesha Samreen	VI Sem	
13	Bhagyashree	VI Sem	
14	Bheemangowda Korwar	VI Sem	
15	Deepa	VI Sem	
16	Dhaneshwari Hugar	VI Sem	
17	Ismailsab Inamdar	VI Sem	
18	Mahantesh Sankanlal	VI Sem	
19	Mahesh	VI Sem	
20	Mallamma	VI Sem	
21	Sukhruta Pattanshetti	VI Sem	
22	Megha B Kumbar	VI Sem	
23	Namratha Subhas Badanavar	VI Sem	
24	Ningangowda Patil	VI Sem	
25	Rashmi Kyasa	VI Sem	
26	Pavitra Roogi	VI Sem	
27	Prakash	VI Sem	
28	Preeti Matpathi	VI Sem	
29	Revubai	VI Sem	
30	Romankousar Karnoor	VI Sem	
31	Sangamesh Desai	VI Sem	
32	Seema Kembavi	VI Sem	
33	Sharangowda Nagavi	VI Sem	
34	Sheela Hattarki	VI Sem	
35	Shrinivas Patil	VI Sem	
36	Siddanna Mahadevappa	VI Sem	
37	Sidram V.V.SALIMATH SC. COLLEGE	VI Sem	
38	Smitha Patil SINDGI-586128	VI Sem	
39	Vijaykumar Pattar	VI Sem	
40	Savitri	VI Sem	

Coordinator IQAC

**Chairperson IQAC
Principal,**

**G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College**

**Department of Zoology,
G.P.Porwal Arts, Commerce & Science
College, Sindgi-586128, Dist: Vijayapur**

41. PIRADHOSHABEGAM, IMAM SAB. 
42. JYOTI. PARASHURAM. ANGADI. 
43. PRADEEP HANAMANT GHANTI 
44. LAXMI SIDDAPPA TALAWAR 
45. KRISHNA VEBKATESHARO KULAKARNI 
46. SHAHANWAJ NABILALDAB HOSAMANI 
47. KAVITA MALAKAPPA BOMMANAHALLI 


HOD

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Chairperson IQAC

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College, SINDAGI, Dist: Vijayapur

Co-ordinator IQAC
G. P. Porewal Arts, Compo & V. V. Salimath
Science College page 1 of 3 - 906128, Dr. Vijayapur

Principal,
G. P. Perwal Arts, Comm. &
M. V. Salimath Sc. College,
SINDGI-585128, College Code: 5234

No.	RegNo.	StudentName	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
15		MAHANTESH SHIVANNA SANKANAL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
16		SHEELA MALLIKARJUN HATTARAKI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
17		MANJUNATH MALLIKARIJUN PATIL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
18		PRADEEP HANAMANT GHANTI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
19		SANGAMESH SATEESH DESAI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
20		VIDYASHREE MALLIKARIJUN PATIL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
21		ARIF AMEEN SAHEB TAMBOLI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
22		Prakash Mahantappa Malled	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
23		SHRINIVAS TAMMANNARAO PATIL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
24		MALLAMMA PARVATHREDDY GORAGORI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
25		NINGANAGOUDA SIDDANAGOUDA PATIL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
26		POOJA KANNAKUMAR TEGGHALI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
27		LAXMI SIDDAPPA TALAWAR	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
28		SIDDANNA MAHADEVAPPA KUKANOOR	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
29		BHAGYASHREE SHARANAGOUDA BIREDARA	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
30		SHIVASHANKAR RAMACHANDRA DYAMAGOND	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
31		KRISHNA VEBKATESHRAO KULAKARNI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
32		REVUBAI HANAMANTRAY MALLAD	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G

Page 2 of 3

No.	RegNo.	StudentName	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
33		PAVANKUMAR GURANNA POLICEPATIL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL
34		MAHESH MAHARAYA WALIKAR	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma
35		MAHESH NINGANNA BIRADAR	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
36		RAGHAVENDRA BAPURAYA YALAGODA	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
37		ADARSH LAXMAN HACHADAD	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
38		RASHMI SHARANAMMA KYASA	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
39		SMITA SHANTAGOUDA PATIL	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
40		DEEPA DODDAPPA BALOOR	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
41		ROMANKOUSAR LALEMASHYAK KARNOOR	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
42		SHAHANWAJ NABILASAB HOSAMANI	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
43		MEGHA BASAVARAJ KUMBAR	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
44		AYESHASAMREEN RUKNODDIN KUMASAGI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
45		KAVITA MALAKAPPA BOMMANAHALLI	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
46		NIKHITA BANNEPPA DEVARAMANI	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
47		SHARANAGOUDA HANAMANTRAYA NAGAVI	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

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Principal,
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V. V. Salimath So. College,
G. P. Porwal, Sangli Dist. 422 002

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DEPARTMENT OF ZOOLOGY

Certificate Course
"Sericulture"
(B.Sc. VI Semester Only)
Internal Test

Time: 1 Hr

Question Paper 2019-20

Max. Marks: 20

Q I. Answer any five questions:

2x5=10

1. Define Sericulture?
2. Name the types of silkworms?
3. What is the most cultivated species of Mulberry?
4. What is the cultivation of mulberry plant called?
5. Name any two silkworm diseases?
6. Which district is the largest producer of silk in Karnataka?

Q II. Answer any one:

1x10 =10

- a. Write a short note on diseases of Silkworm ?

OR

- b. Explain the life cycle of Bombyx mori in Sericulture?


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College, SINDAGI. Dist: Vijayapur


Chairperson IQAC
Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234



Student's Name	Nikhita Math		Total Marks Obtained
Class	Subject		
Roll No.	Date		

18
20

① Sericulture is the process of cultivating silkworms & extracting silk from them.

- ②
- Muga silk
 - Tussar silk
 - Chinese oak silk moth
 - Antheraea assameensis

③ The most cultivated varieties belong to either m. indica or malba.

④ Moriculture can be defined as the process of cultivating mulberry plants in order to obtain feed for silkworms.

⑤ Diseases caused by the silkworms

- Aspergilliosis
- green muscardine
- white muscardine

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II

1) Silk worm disease:

- i) Silkworms have been domesticated by the silk industry and they cannot reproduce on their own. Indeed, reproduction demands human interference in the rearing room, which makes silkworms susceptible to various infectious diseases and consequently all the infections caused by microorganisms, including protozoa, bacteria, viruses and fungi.
- It has been reported that about 30-40% of total crop loss is due to occurrence of these few major diseases.

(i) The disease nucleopolyhedrosis virus is epidermal, tracheal, midgut, haemocytes, silk gland and pericard cells, epithelial cells.

- Swelling in intersegmental region, shining and fragile skin, milky white fluid.

(ii) Cytoplasmic polyhedrosis virus (CPV)

- Epithelial cells, midgut
- Translucent epithelial region, diarrhoea, greenish, milky white, midgut whitish faeces.

(iii) Dengue necrosis virus:

- Epithelial cells, digestive organs

- Translucent epithelial region

Student's Name		Total Marks Obtained
Class	Subject	
Roll No.	Date	

Infection flaccidaria BmFV virus (BmV)

- Epithelial cells, midgut
- * Translucent Cephalothoracic region diarrhoea related growth.

Aspergillosis

body formation of light-yellow coloured spores.

- in the only way to change Sericulture into a sustainable activity by treating silkworms (Bombyx mori L)
- that are diseased by pathogenic viruses, fungi, microscopians and bacteria. viral and bacterial disease are bacteria.

- Nucleopolydnavirus : (BmNPV)
cytoplasmic vacuolar moria, fat bodies, haemolymph glands and pericardial cells epithelial cells.

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DEPARTMENT OF ZOOLOGY

APPLICATION FORM



1. Name of the course: Sericulture

2. Year of the Course: 2019-20

3. CLASS: B.Sc V semester

General Information of the Candidate:

Name of the student: Pradeep H. Ghanti

Sex : Male / Female

Date of Birth: 01/07/1999

Caste: Hindu Ganiga

Annual Income: 6,00,000/-

Permanent Address: Kokkalameli Building

Vidyanagar 1st Cross

Sindagi - 586128

MO. NO : 7760107032

DECLARATION

I hereby certify that above information furnished by me is true to the best of my knowledge and belief. I shall regularly attend all theory and practical classes in the college, in case shortage of attendance I may not be permitted to appear for the examination. Further I declare that I shall abide by the rules and regulation of the college and adhere to the discipline.

Coordinator IQAC
V.V.SALIMATH Sc. College,
SINDGI-586128

Signature of the Candidate

HOD

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Principal,

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V. V. Salimath Sc. College



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E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile : 9611032604

VALEDICTORY FUNCTION



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Principal,
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Coordinator IQAC
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V. V. SALIMATH Sc. Coll,
SINDGI-586128.

SSM
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Dist: Vijayapur

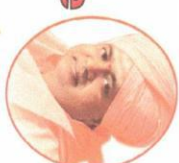
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State: Karnataka



IQAC Initiative
DEPARTMENT OF ZOOLOGY

CERTIFICATE

This is to certify that Kumar/ Kumari. Jyoti. Angadi.....
of B.Sc. VI Sem has successfully completed Certificate Course in “**SERICULTURE**” during
the year 2019-20


HOD


Coordinator IQAC


Principal



S.P.V.V.S'S

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DEPARTMENT OF ZOOLOGY

INAUGURATION OF CERTIFICATE COURSE

"Sericulture"

2019-2020

Date: 22/01/2020

To,

The Coordinator,

IQAC

G.P.Porwal Arts Comm and V V Salimath Science college

Sindagi

Sub: Request for Permission to Inauguration of certificate course...

Sir/Madam,

With reference to subject cited above I would like to bring to your kind information that; our Department is going to start Certificate course for the academic year **2019-2020** to B.Sc- VI Sem Students in the Month of **February 2020**. So on this occasion we would like to inaugurate this function on **28/01/2020**. Kindly permit us the same for the welfare of our students. Hoping that the authority will do the needful and oblige

Thanking you

Place; Sindgi

Date: 22/01/2020

Co-ordinator IQAC

G. P. Porwal Arts, Comm & V. V. Salimath
Science College, SINDGI-586128. Dist: Vijayapur

Head of Department,

Dept. of Zoology,
G.P.Porwal Arts, Commerce & Science
College, SINDGI. Dist: Vijayapur

Principal,

G. P. Porwal Arts, Comm. &
V. V. Salimath Sc. College,
SINDGI-586128. College Code: 5234

CAREER ORIENTED COURSE

ON

"SERICULTURE"

Academic Year - 2019-2020

Minutes of Meeting

Date: 10-02-2020

Time: 12:30 PM

A meeting have been arranged in the Department of Zoology in order to give about-formation of BOS to introduce the Certificate Course in the presence of Principal for the academic year 2019-2020.

Attendants:

- 1) Shri: R.S. Bhosbeli Principal-chairman
- 2) Shri: D.M. Patil HOD member ✓
- 3) Shri: D.M. Salasbeli Member ✓
- 4) Shri: S.V. Chavan Special Invitee Member ✓

Agenda:

- 1) Formation of BOS for introduction of the Certificate Course in "Sericulture"
- 2) About Syllabus preparation for Certificate Course
- 3) Any other discussions with permission of principal.

HOD

Coordinator IQAC

Chairperson IQAC



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E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile : 9611032604

Date: 24/01/2020

To,
Head,
Department of Zoology

Sub: Permission to Inaugurate the certificate course
Ref : Your letter dated: 22/01/2020

Sir/Madam,

With reference to subject and reference cited above I herewith permit
you to Inaugurate the certificate course on "Sericulture" for B.Sc-VI Sem Students
for this academic year 2019-2020

Thanking you,

Place: Sindgi
Date: 24/01/2020

Coordinator, IQAC

G. P. Porwal Arts, Comm & V. V. Salimath
Science College, SINDGI-586128, Dt: Vijayapur

HOD

Sir/Mad, Dept. of Zoology,
G.P.Porwal Arts, Commerce & Science
College, SINDGI. Dist: Vijayapur

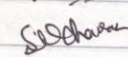
Principal,

G. P. Porwal Arts, Comm. &
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SINDGI-586128. College Code: 5234

ACTION TAKEN.

As per the agenda it has been resolved ~~with~~ ^{to} name mainly the following members as BOS for the Certificate course in zoology.

BOS-Members of the Certificate course for the Academic year 2019-2020.

1. Principal — R. S. Bhoschetti — chairman
2. Prof — D. M. Patil Member 
3. Prof — D. M. Saraschetti Member 
4. Prof — ~~Rajendra Bhoschetti~~ S. V. Charan Member 

Proceedings:

- ⇒ The committee has prepared syllabus about 30 hrs. duration.
- ⇒ The Syllabus consists oriented to the students.
- ⇒ The committee has decided the date and time for Certificate course.


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College, Sindgi


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SINDGI-586128


Chairperson IQAC
PRINCIPAL,



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DEPARTMENT OF ZOOLOGY

2019-2020

Date:25/01/2020

NOTICE

It is hereby informed to all the B.Sc Zoology students that Inauguration of Certificate Course on "Sericulture" for this academic year 2019-2020 is held on 28/01/2020. So all the students of Zoology attend the function without fail.


Co-ordinator IQAC
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Inauguration of Certificate Course. 2019-20




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Science College, SINDGI-526122, Dist. Vijayapur


Principal,
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SINDGI-526122, College Code-5239

Inauguration of Certificate Course 2019-20




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S.P.V.V.S.S

**G P Porwal Arts , Commerce and V. V. Salimath Science College
Sindagi – 586128**

IQAC Initiative

**DEPARTMENT OF ZOOLOGY
Inauguration Of Certificate Course
2019-2020**

“Sericulture”

Date: 28/01/2020

Venue: G15

Time: 10:30am

Chief Guest: Prof: S V Chavan

Shri Padmaraj B.Ed College Sindagi

President: Shri R S Bhooshetti

Principal

Guest : Mahesh Rodagi

Dept. of Commerce

Prof: D.M. Patil

HOD, Dept. of Zoology

Prof: D.M Sarashetti

Dept. of Zoology

..... Welcome to All

Event Report- 2019-2020

1.	Name of the Department	Department of Zoology
2.	Name of the Event Organized	CERTIFICATE COURSE
3.	Title of the Event	“Inauguration Function”
4.	Date of Event	28/01/2020
5.	Participants	B.Sc. Zoology Students
6.	Name of the Guest Speaker	Prof. Sudhakar.V Chavan Sri.Padmaraj B.Ed College Sindagi
7.	Objective of the Event	Importance of Certificate course
8.	Outcome of the event	Certificate course of students use to self Employment, Courier development and Enter pruner .
9.	Report	A function was arranged by Department of Zoology. The function was started with welcome of Guest by Prof. D M Sarashetti Dept. of Zoology. Prof.D.M.Patil.HOD.Dept of Zoology introduced the guest. The Chief guest Prof.S.V.Chavan Spoke about certificate course , it was very fruit full. Sri. Mahesh Roodagi Dept.of Commerce preside over the function. and proposed vote of thanks.


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Science College, SINDAGI-586128, Dist: Vijayapur


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Department of Zoology

Certificate Course
"Sericulture"
SYLLABUS

Unit:1 Defination, History of Silk, Types of Silkworms, 10 Hrs
Mulberry and Nonmulberry Sericulture, Life cycle of Bombyx mori,
Structure of Silk gland and Secretion of Silk.

Unit:2. Rearing house and rearing appliances, Disinfectants: Formalin, 10 Hrs
Bleaching powder, RKO silkworm rearing technology, Early age and
Late age rearing types of mountage, spinning, harvesting and storage of
cocoons.

Unit:3. Silkworm diseases: Protozoan, viral, fungal and bacterial 10 Hrs
Control and prevention of pests and diseases, Prospectus of sericulture
In India, Sericulture industries in different States, visit to various
Sericulture centres.
10 Hrs

Total 30 Hrs

Board of Studies:

- | | | |
|----------------------------|---|----------------|
| 1. Prof. D.M.Patil | : | Chairman & HOD |
| 2. Prof. D.M.Sarashetti | : | Member |
| 3. Prof. Nandita S. Hulgol | : | Member |


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Chairperson IQAC
Principal,
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DEPARTMENT OF ZOOLOGY

Certificate Course

"Sericulture"

Student Attendance-2019-20

Sl no.	Name of the students	Class	Signature
1	Pradeep.H.Ghanti	VI Sem	
2	Laxmi.S.Talwar	VI Sem	
3	Vidyashree	VI Sem	
4	Nikhita.Math	VI Sem	
5	Mahesh.Biradar	VI Sem	
6	Shivashankar.R.Dyamagond	VI Sem	
7	Pavankumar	VI Sem	
8	Manjunath.Patil	VI Sem	
9	Pooja.K.Tegghalli	VI Sem	
10	Adarsh Laxman Hachdad	VI Sem	
11	Arif Tamboli	VI Sem	
12	Ayesha Samreen	VI Sem	
13	Bhagyashree	VI Sem	
14	Bheemangowda Korwar	VI Sem	
15	Deepa	VI Sem	
16	Dhaneshwari Hugar	VI Sem	
17	Ismailsab Inamdar	VI Sem	
18	Mahantesh Sankanlal	VI Sem	
19	Mahesh	VI Sem	
20	Mallamma	VI Sem	
21	Sukhruta Pattanshetti	VI Sem	
22	Megha B Kumbar	VI Sem	
23	Namratha Subhas Badanavar	VI Sem	
24	Ningangowda Patil	VI Sem	
25	Rashmi Kyasa	VI Sem	
26	Pavitra Roogi	VI Sem	
27	Prakash	VI Sem	
28	Preeti Matpathi	VI Sem	
29	Revubai	VI Sem	
30	Romankousar Karnoor	VI Sem	
31	Sangamesh Desai	VI Sem	
32	Seema Kembavi	VI Sem	
33	Sharangowda Nagavi	VI Sem	
34	Sheela Hattarki	VI Sem	
35	Shrinivas Patil	VI Sem	
36	Siddanna Mahadevappa	VI Sem	
37	Sidram	VI Sem	
38	Smitha Patil	VI Sem	
39	Vijaykumar Pattar	VI Sem	
40	Savitri	VI Sem	

Coordinator IQAC

**Chairperson IQAC
Principal,**

**G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College**

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DEPARTMENT OF ZOOLOGY

Certificate Course

“Sericulture”

Statement of marks 2019-20

Sl no	Name of the students	Class	Theory (20 marks)	Remarks
1	Pradeep.H.Ghanti	VI Sem	19	Pass
2	Laxmi.S.Talwar	VI Sem	18	Pass
3	Vidyashree	VI Sem	18	Pass
4	Nikhita.Math	VI Sem	18	Pass
5	Mahesh.Biradar	VI Sem	17	Pass
6	Shivashankar.R.Dyamagond	VI Sem	17	Pass
7	Pavankumar	VI Sem	18	Pass
8	Manjunath.Patil	VI Sem	18	Pass
9	Pooja.K.Tegghalli	VI Sem	19	Pass
10	Adarsh Laxman Hachdad	VI Sem	17	Pass
11	Arif Tamboli	VI Sem	15	Pass
12	Ayesha Samreen	VI Sem	13	Pass
13	Bhagyashree	VI Sem	17	Pass
14	Bheemangowda Korwar	VI Sem	16	Pass
15	Deepa	VI Sem	18	Pass
16	Dhaneshwari Hugar	VI Sem	15	Pass
17	Ismailsab Inamdar	VI Sem	18	Pass
18	Mahantesh Sankanai	VI Sem	19	Pass
19	Mahesh	VI Sem	17	Pass
20	Mallamma	VI Sem	18	Pass
21	Sukhruta Pattanshetti	VI Sem	16	Pass
22	Megha B Kumbar	VI Sem	15	Pass
23	Namratha Subhas Badanavar	VI Sem	16	Pass
24	Ningangowda Patil	VI Sem	17	Pass
25	Rashmi Kyasa	VI Sem	18	Pass
26	Pavitra Roogi	VI Sem	18	Pass
27	Prakash	VI Sem	16	Pass
28	Preeti Matpathi	VI Sem	15	Pass
29	Revubai	VI Sem	17	Pass
30	Romankousar Karnoor	VI Sem	18	Pass
31	Sangamesh Desai	VI Sem	16	Pass
32	Seema Kembavi	VI Sem	18	Pass
33	Sharangowda Nagavi	VI Sem	16	Pass
34	Sheela Hattarki	VI Sem	17	Pass
35	Shrinivas Patil	VI Sem	18	Pass
36	Siddanna Mahadevappa	VI Sem	18	Pass
37	Sidram	VI Sem	17	Pass
38	Smitha Patil	VI Sem	16	Pass
39	Vijaykumar Patar	VI Sem	15	Pass
40	Savitri	VI Sem	17	Pass

Coordinator IQAC

SINDGI-586128

Chairperson IQAC

G.P.Porwal Arts, Commerce & St
College, SINDAGI. Dist: Vijaya

SPVVSS

**G.P. PORWAL ARTS, COMMERCE & V.V. SALIMATH SCIENCE COLLEGE AND
BHASKARACHARYA-II P.G CENTRE SINDGI - 586 128**

Affiliated to Rani Channamma University Belagavi (Karnataka State)
Accredited at B (2.42 CGPA) by NAAC

DEPARTMENT OF ZOOLOGY

APPLICATION FORM



1. Name of the course: Sericulture
2. Year of the Course: 2019/2020
3. CLASS: B.Sc V semester

General Information of the Candidate:

Name of the student: Laxmi, S. Talawan

Sex : Male / Female ☒ Male

Date of Birth: 01/06/1999

Caste: C-1

Annual Income: 12,000

Permanent Address: S. K. Talawan
Balevanagan, Devarahippuragi
Tq- Sindgi, Dist- Vijayapura

DECLARATION

I hereby certify that above information furnished by me is true to the best of my knowledge and belief. I shall regularly attend all theory and practical classes in the college, in case shortage of attendance I may not be permitted to appear for the examination. Further I declare that I shall abide by the rules and regulation of the college and adhere to the discipline.

Coordinator IQAC
G. P. PORWAL ARTS, COM. &
V.V.SALIMATH Sc. College,
SINDGI-586128

Chairperson IQAC

PRINCIPAL,

Signature of the Candidate

HOD
Dept. of Zoology,
G.P.Porwal Arts, Commerce & Science
College, SINDGI, Dist: Vijayapur