



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com * Email : Vidyapeetha : rkp616.CI@unishivaji.ac.in**

Add-on Certificate Course

On

Sericulture



Organised by

Department of Zoology

Course incharge

Mr. Mali G. S.

Mr. Gobbi S. D.

Miss. Madgyal B. R.

Course duration-02 Dec 2022 to 06 Jan 2023

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Add on certificate course on sericulture

Year 2022-2023

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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Ref.No.

Date:25/11/2022

To,

The Principal,

Shri. R.K.P. Art, Commerce

and Science College, Sankh.

Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course in
Certificate Course of Sericulture

Respected sir,

With the reference to above subject, our Zoology department is going to conduct certificate course in Certificate Course of **Sericulture** for B.Sc. Students in this year academic year (2022-23). So, I request you to give us permission to conduct above said course.

Thanking you,

Permission Granted
25/11/22



(Signature)
Yours Faithfully

Department of Zoology,

Shri R.K. Patil A.C.S College, Sankh.

Tal- Sankh, Dist-Sangli

Head

Department of Zoology
Shri R.K. Patil Arts, Commerce
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To

Mr. M. B. Sajjan

HOD of Zoology Department,

R.R college Jath

A/P- Jath, Tal- Jath

Dist- Sangli

Subject: Invitation as a resource person for certificate course in
"Sericulture".

Respected Sir ,

I am pleased to invite you to conduct certificate course in "Sericulture".
for academic 2022-23 under Department of Zoology from Date 02/12/2022 to
06/01/2023.

We look forward your presence and guidance

Thanking you


your faithfully

Head
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Date-28-12-2022

Notice

All students of B.sc I/II/III are here by informed that Department has organised " Add on Certificate Course on Sericulture" from 2022-23.All students are informed that they should remain present for course on time. It may clearly noted that will be collected from absent students.




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Department of Zoology

Sericulture

Meeting Notice

The meeting of the members of BOS in certificate course in **Sericulture** is conveyed on 02 December 2022 for the preparation of syllabus.

Sr.no.	Name	Position	Signature
1	Mr. Kolekar.L.S.	Chairman	
2	Mr. Mali.G.S	Co-Ordinator	
3	Mr. Sayyad S.A.	Member	
4	Mr. Patil.S.B.	Member	
5	Mr. Haladakki A.S.	Member	

HOD

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli



Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

Department of Zoology

Sericulture

Academic Year 2022-23

Minutes of Meeting

The meeting of the members of BOS in certificate course in Introduction of Sericulture is held on 02 December 2022 for the preparation of course syllabus. The following members of present and prepared the syllabus of the above course and submitted to IQAC, Shri R.K. Patil ACS College Sankh.

Sr.no.	Name	Position	Signature
1	Mr. Kolekar.L.S.	Chairman	
2	Mr. Mali.G.S	Co-Ordinator	
3	Mr. Sayyad S.A.	Member	
4	Mr. Patil.S.B.	Member	
5	Mr. Haladakki A.S.	Member	

HOD

Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
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Principal

I/c. Principal,

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Title- Add on Certificate Course on Sericulture.

Total Hrs.30

Theory

- Life cycle of Bombyx mori-Morphology of egg,larva,pupa, and adult of Bombyx mori.
- Morphology and Anatomical structure of Silk gland.
- Rearing house:Location,orientation ,plan and utilities; model rearing house;low-cost rearing house.
- Chawki rearing:Preparation; brushing and its methods;types of chawki rearing traditional and improved method ;optimum environmental conditons; methods and frequency of feeding,methods of bed cleaning spacing;moulting and care during moult.
- Late age silkworm rearing :Methods;optimum environmental condition ;methods andfrequency of feeding;methods of bed cleaning;Spacing;moultingcare during moult.
- Brushing : Methods ;chwki rearing ;use of paraffin paper andblue polytene sheet.Bed cleaning;use of bed cleaning net and disposal of bed refuses and silkworm litter.
- Moulting: Identification of moultinglarva, care during moulting;moulting density; harvesting of cocoons; assessmentof cocoons types of mountages;Maintanance of records for silkworm rearing.
- Introduction; Classification of silkworm disease.

Practicals

- Study of life cycle of Silkworm
- Choking of silkworm



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Department of Zoology

Year:2022-23

Add on Certificate Course

On

Sericulture

Objectives:

- On completing the Sericulture course, students will be able to understand overall aspects of Sericulture, namely, Mulberry and non-mulberry silkworms and their food plants, Rearing of the silkworm pathology, Process of silkworm seed production and silk technology.
- This course creates awareness among about the economic importance and suitability of sericulture in Indian conditions.
- Students will get hands on training on Mulberry nursery management, Silkworm rearing, and Silk reeling.
- Employing self employment and entrepreneurship among youths.

Learning Outcomes:

- Understand concepts of sericulture industry and demonstrate interdisciplinary skills acquired in mulberry plant cultivation, silkworm rearing, diagnosis of diseases and pest of mulberry and silkworm and their prevention and its Seri-farmers livelihood.
- Demonstration the Laboratory and field skills in mulberry cultivation and silkworm rearing with emphasis on technological aspects..
- Competent to transfer the knowledge and technical skills to the Seri-farmers.
- Critically analyse the environmental issues and apply in management of mulberry garden and silkworm rearing at field.


Incharge Certificate Course


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Department of Zoology

Year: 2022-2023

Add on Certificate Course

On

Sericulture

Time Table-

Theory and Practical

Time	Mon	Tues	Wed	Thurs	Fri	Sat
1.30-2.30 Theory	Mr.Mali. G.S	Mr.Gobbi. S.D	Miss.Mad gyal B.R.	Mr.Gobbi.S. D	Mr.Mali.G. S	Miss.Madgya I B.R.
2.45-3.30 Practical	Mr.Mali. G.S	Mr.Gobbi. S.D	Miss.Mad gyal B.R.	Mr.Gobbi.S. D	Mr.Mali.G. S	Miss.Madgya I B.R.



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Department of Zoology

Year: 2022-2023

Add on Certificate Course On Sericulture

Sr. No.	No. of Students
1	KATRAL PRAKASH MADANNA
2	KULANGI PAVAN PRABHAKAR
3	SAWANT ASMITA MOHAN
4	MULLA ISMAIL BADESAHEB
5	BIRADAR BALACHANDRA BABURAY
6	SHINGADE SUNIL DASHARATH
7	NAGANE MAHESHWARI SAMBHAJI
8	MORADI VIRESH SURESH
9	VAGHOLI ANIL SAHEBGODA
10	KARAJANAGI BASAVPOOJA MAHADEV
11	WAGOLI ASHOK GURUPAD
12	GEJJI ANAND MURIGEPPA
13	PAWAR LAXMIKANT BHAIKAVNATH
14	BHANDARKAVATE VITTHAL BHIMRAY
15	MUCHANDI SHASHIKALA SHRISHAIL
16	SUSALAD BILENSIDDA SHIVANNA
17	LONI RAJASHRI BALAPPA
18	SANADI SUKHADEV SAMBHAJI
19	BIRADAR SOMANGOUNDA SHANKAR
20	KUMBAR ANAND GANAPATI
21	CHOUGULE SUREKHA MAYAPPA
22	GOBBI GANESH PRABHULING
23	RUPANAVAR YOGESH JAKKAPPA
24	ANKALKOT SHIVASHANKAR SHRISHAIL
25	MADABHAVI SACHIN SANGMESH
26	UMARANI SHRIDHAR MALLIKARJUN
27	SAWANT DAYANAND SHAHAJI

28	KARAJAGI AKSHATA SURESH
29	KOTAGOND OMKAR SANJAY
30	BIRADAR MAHESH MAHADEV
31	TUP SOUNDARYA SHREYASH MAHADEV
32	BIRADAR SACHIN MALLIKARJUN
33	JAMAGOND BHIMANNA MALLIKARJUN
34	KOLAKAR BASAVARAJ RAJAPPA
35	SHINDE VAIBHAV VILAS
36	SUTAR SONALI RAJENDRA
37	MALHALKAR ARUN BABASO
38	AWATI VIJAYALAXMI CHANNAPPA
39	RATHOD SANDESH GOVIND
40	AKKI VINOD ARUN




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Attendance Sheet

Sr.no.	Name of the students	2 D e c	3 Dec	5 Dec	6 Dec	7 Dec	8 Dec	9 Dec	10 Dec	12 Dec	13 Dec	14 Dec	15 Dec
1.	KATRAL PRAKASH MADANNA	Prk	Prk	Prk	Prk	Prk	Prk	Prk	Prk	Prk	Prk	Prk	Prk
2.	KULANGI PAVAN PRABHAKAR	Pav	Pav	Pav	Pav	Pav	Pav	Pav	Pav	Pav	Pav	Pav	Pav
3.	SAWANT ASMITA MOHAN	Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm
4.	MULLA ISMAIL BADESAHEB	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M	I.B.M
5.	BIRADAR BALACHANDRA BABURAY	B.B.	B.B.	B.B.	B.B.	B.B.	B.B.	B.B.	B.B.	B.B.	B.B.	B.B.	B.B.
6.	SHINGADE SUNIL DASHARATH	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil
7.	NAGANE MAHESHWARI SAMBHAJI	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.	M.S.
8.	MORADI VIRESH SURESH	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.	V.S.
9.	VAGHOLI ANIL SAHEBGODA	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil	Anil
10.	KARAJANAGI BASAVPOOJA MAHADEV	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.
11.	WAGOLI ASHOK GURUPAD	A.G.	A.G.	A.G.	A.G.	A.G.	A.G.	A.G.	A.G.	A.G.	A.G.	A.G.	A.G.
12.	GEJJI ANAND MURIGEPPA	Anand	Anand	Anand	Anand	Anand	Anand	Anand	Anand	Anand	Anand	Anand	Anand



13.	PAWAR LAXMIKANT BHAIKAVNATH	Rla	Rla	Rla	Rla	Rla	Ab	Rla	Rla	Rla	Rla	Rla	Rla	Rla
14.	BHANDARKAVATE VITTHAL BHIMRAY	phim	phim	phim	phim	Ab	phim	phim	phim	phim	phim	phim	phim	phim
15.	MUCHANDI SHASHIKALA SHRISHAIL	sem	sem	sem	sem	sem	sem	sem	sem	Ab	sem	sem	Ab	
16.	SUSALAD BILENSIDDA SHIVANNA	Bu	Bu	Bu	Bu	Bu	Ab	Bu	Bu	Bu	Bu	Bu	Bu	Bu
17.	LONI RAJASHRI BALAPPA	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
18.	SANADI SUKHADEV SAMBHAJI	sem	sem	sem	sem	sem	sem	sem	sem	sem	sem	Ab	sem	
19.	BIRADAR SOMANGOUNDA SHANKAR	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B
20.	KUMBAR ANAND GANAPATI	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt
21.	CHOUGULE SUREKHA MAYAPPA	Pkt	Pkt	Pkt	Pkt	Pkt	Ab	Pkt	Pkt	Pkt	Pkt	Pkt	Pkt	Pkt
22.	GOBBI GANESH PRABHULING	Pake	Pake	Pake	Pake	Pake	Ab	Pake	Pake	Pake	Pake	Pake	Pake	Pake
23.	RUPANAVAR YOGESH JAKKAPPA	Yosh	Yosh	Yosh	Yosh	Yosh	Yosh	Yosh	Yosh	Ab	Yosh	Yosh	Yosh	Yosh
24.	ANKALKOT SHIVASHANKAR SHRISHAIL	Shish	Shish	Shish	Shish	Shish	Shish	Shish	Shish	Shish	Shish	Shish	Shish	Shish
25.	MADABHAVI SACHIN SANGMESH	Sach	Sach	Sach	Sach	Sach	Sach	Ab	Sach	Sach	Sach	Sach	Sach	Sach
26.	UMARANI SHRIDHAR MALLIKARJUN	U	U	U	U	U	U	U	U	U	U	U	U	U
27.	SAWANT DAYANAND SHAHAJI	gat	gat	gat	gat	gat	gat	gat	gat	Ab	gat	gat	gat	gat
28.	KARAJAGI AKSHATA SURESH	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S
29.	KOTAGOND OMKAR SANJAY	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
30.	BIRADAR MAHESH MAHADEV	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg
31.	TUPSOUNDARYA SHREYASH MAHADEV	SM.T	SM.T	SM.T	SM.T	SM.T	Ab	SM.T	SM.T	SM.T	Ab	SM.T	SM.T	SM.T
32.	BIRADAR SACHIN MALLIKARJUN	Sob	Sob	Sob	Sob	Ab	Sob	Sob	Sob	Sob	Ab	Sob	Sob	Sob
33.	JAMAGOND BHIMANNA MALLIKARJUN	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima



34.	KOLAKAR BASAVARAJ RAJAPPA	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Ab	Bok	Bok	Bok	Bok
35.	SHINDE VAIBHAV VILAS	VB	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS
36.	SUTAR SONALI RAJENDRA	SEL	SEL	SEL	SEL	SEL	SEL	SEL	SEL	Ab	SEL	SEL	SEL
37.	MALHALKAR ARUN BABASO	Abm	Abm	Abm	Abm	Abm	Ab	Abm	Abm	Abm	Abm	Abm	Abm
38.	AWATI VIJAYALAXMI CHANNAPPA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA
39.	RATHOD SANDESH GOVIND	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr
40.	AKKI VINOD ARUN	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab




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Attendance Sheet

Sr.no.	Name of the students	16 Dec	17 Dec	19 Dec	20 Dec	21 Dec	22 Dec	23 Dec	24 Dec	26 Dec	27 Dec	28 Dec	29 Dec
1.	KATRAL PRAKASH MADANNA	Prnt	Prnt	Prnt	Prnt	Prnt	Ab	Prnt	Prnt	Prnt	Prnt	Prnt	Prnt
2.	KULANGI PAVAN PRABHAKAR	Pavnt	Pavnt		Pavnt	Pavnt	Pavnt	Ab	Pavnt	Pavnt	Pavnt	Pavnt	Pavnt
3.	SAWANT ASMITA MOHAN	Prnt	Prnt	Prnt		Prnt	Prnt	Prnt	Ab	Prnt	Prnt	Prnt	Prnt
4.	MULLA ISMAIL BADESAHEB	T.B.M	T.B.M	T.B.M	T.B.M	T.B.M	T.B.M	T.B.M	T.B.M	T.B.M	Ab	T.B.M	T.B.M
5.	BIRADAR BALACHANDRA BABURAY	B/B	B/B	B/B	B/B	Ab	B/B	B/B	B/B	Ab	B/B	B/B	B/B
6.	SHINGADE SUNIL DASHARATH	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil
7.	NAGANE MAHESHWARI SAMBHAJI	Sa	Sa	Ab	Sa	Sa	Sa	Sa	Sa	Sa	Sa	Sa	Sa
8.	MORADI VIRESH SURESH	Vgr	Vgr	Vgr		Vgr	Vgr	Vgr	Vgr	Vgr	Vgr	Vgr	Vgr
9.	VAGHOLI ANIL SAHEBGOUDA	Anil	Anil	Anil	Anil	Anil	Ab	Anil	Anil	Anil	Anil	Anil	Anil
10.	KARAJANAGI BASAVPOOJA MAHADEV	Kp	Kp	Kp	Ab	Kp	Kp	Kp	Kp	Kp	Ab	Kp	Kp
11.	WAGOLI ASHOK GURUPAD	Agar	Agar	Agar	Agar	Agar	Ab	Agar	Agar	Agar	Agar	Agar	Agar
12.	GEJJI ANAND MURIGEPPA	Ang	Ang	Ang	Ang	Ang	Ang	Ang	Ang	Ang	Ab	Ab	Ang
13.	PAWAR LAXMIKANT	Pk	Pk	Pk	Pk	Pk	Pk	Pk	Pk	Pk	Ab	Pk	Pk



	BASAVARAJ RAJAPPA	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Bok
35.	SHINDE VAIBHAV VILAS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS	VVS
36.	SUTAR SONALI RAJENDRA	SR	SR	SR	SR	SR	AB	SR	SR	SR	SR	SR	SR	SR
37.	MALHALKAR ARUN BABASO	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
38.	AWATI VIJAYALAXMI CHANNAPPA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA	VCA
39.	RATHOD SANDESH GOVIND	Sgo	Sgo	AB	Sgo	Sgo	Sgo	Sgo	Sgo	AB	Sgo	Sgo	Sgo	Sgo
40.	AKKI VINOD ARUN	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB




Head
 Department of Zoology
 Shri R. K. Redi Arts, Commerce
 & Science College, Sankh
 Tal. Jalgaon, Dist. Dangli



Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Department of Zoology

Year: 2022-2023

Attendance Sheet

Sr.no.	Name of the students	30 Dec	31 Dec	1 Jan	2 Jan	3 Jan	4 Jan	5 Jan	6 Jan
1.	KATRAL PRAKASH MADANNA	Punt	Punt	Punt	Ab	Punt	Punt	Punt	Punt
2.	KULANGI PAVAN PRABHAKAR	Pavan	Pavan	Pavan	Pavan	Pavan	Ab	Pavan	Pavan
3.	SAWANT ASMITA MOHAN	Panta	Panta	Panta	Ab	Panta	Panta	Panta	Panta
4.	MULLA ISMAIL BADESAHEB	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M
5.	BIRADAR BALACHANDRA BABURAY	B	B	B	B	Ab	B	B	B
6.	SHINGADE SUNIL DASHARATH	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil
7.	NAGANE MAHESHWARI SAMBHAJI	Sac	Sac	Sac	Sac	Sac	Sac	Sac	Sac
8.	MORADI VIRESH SURESH	Ab	Ygr	Ygr	Ygr	Ygr	Ygr	Ygr	Ygr
9.	VAGHOLI ANIL SAHEBGOUDA	Anil	Anil	Anil	Ab	Anil	Anil	Anil	Anil
10.	KARAJANAGI BASAVPOOJA MAHADEV	Ks	Ks	Ks	Ks	Ab	Ks	Ks	Ks
11.	WAGOLI ASHOK GURUPAD	Agar	Ab	Agar	Agar	Agar	Agar	Agar	Agar
12.	GEJJI ANAND MURIGEPPA	Anag	Anag	Anag	Anag	Anag	Ab	Anag	Anag
13.	PAWAR LAXMIKANT BHAIRAVNATH	Pb	Pb	Pb	Pb	Pb	Pb	Pb	Pb



14.	BHANDARKAVATE VITTHAL BHIMRAY	Bhim	Bhim	Bhim	Bhim	Bhim	Bhim	Bhim	Bhim
15.	MUCHANDI SHASHIKALA SHRISHAIL	SSM	SSM	SSM	SSM	SSM	SSM	SSM	SSM
16.	SUSALAD BILENSIDDA SHIVANNA	B	B	B	B	B	B	B	B
17.	LONI RAJASHRI BALAPPA	Loni R.B	Loni R.B	Loni R.B	Loni R.B	Loni R.B	Loni R.B	Loni R.B	Loni R.B
18.	SANADI SUKHADEV SAMBHAJI	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam
19.	BIRADAR SOMANGOUNDA SHANKAR	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B	S.S.B
20.	KUMBAR ANAND GANAPATI	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt	Cpt
21.	CHOUGULE SUREKHA MAYAPPA	Mai	Mai	Mai	Mai	Mai	Mai	Mai	Mai
22.	GOBBI GANESH PRABHULING	Prabu	Prabu	Prabu	Prabu	Prabu	Prabu	Prabu	Prabu
23.	RUPANAVAR YOGESH JAKKAPPA	Yog	Yog	Yog	Yog	Yog	Yog	Yog	Yog
24.	ANKALKOT SHIVASHANKAR SHRISHAIL	Shail	Shail	Shail	Shail	Shail	Shail	Shail	Shail
25.	MADABHAVI SACHIN SANGMESH	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin
26.	UMARANI SHRIDHAR MALLIKARJUN	Umar	Umar	Umar	Umar	Umar	Umar	Umar	Umar
27.	SAWANT DAYANAND SHAHAJI	Saw	Saw	Saw	Saw	Saw	Ab	Saw	Saw
28.	KARAJAGI AKSHATA SURESH	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S
29.	KOTAGOND OMKAR SANJAY	Ok	Ok	Ok	Ok	Ok	Ok	Ok	Ok
30.	BIRADAR MAHESH MAHADEV	Mg	Mg	Mg	Mg	Mg	Mg	Mg	Mg
31.	TUPSOUNDARYA SHREYASH MAHADEV	Smit	Smit	Smit	Smit	Smit	Smit	Smit	Smit
32.	BIRADAR SACHIN MALLIKARJUN	Sach	Sach	Sach	Sach	Sach	Sach	Sach	Sach
33.	JAMAGOND BHIMANNA MALLIKARJUN	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima	Bhima
34.	KOLAKAR BASAVARAJ RAJAPPA	Bok	Bok	Bok	Bok	Bok	Bok	Bok	Bok
35.	SHINDE VAIBHAV								



	VILAS	V-V-S	V-V-S	V-V-S	V-V-S	V-V-S	V-V-S	V-V-S	V-V-S
36.	SUTAR SONALI RAJENDRA	SRL	SRL	SRL	SRL	SRL	SRL	SRL	SRL
37.	MALHALKAR ARUN BABASO	Ahn	Ahn	Ahn	Ahn	Ahn	Ahn	Ahn	Ahn
38.	AWATI VIJAYALAXMI CHANNAPPA	V-C-A	V-C-A	V-C-A	V-C-A	V-C-A	V-C-A	V-C-A	V-C-B
39.	RATHOD SANDESH GOVIND	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr	Sgr
40.	AKKI VINOD ARUN	Aur	Aur	Aur	Aur	Aur	Aur	Aur	Aur




Head
 Department of Zoology
 Shri R. K. Patil Arts, Commerce
 & Science College, Sangli
 Tal. Jath, Dist. Sangli

Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts,Commerce and Science College ,Sankh

Department of Zoology

Question Paper

Add on Certificate Course On Sericulture.

Marks:30

Instructions

- 1.All the questions are compulsory.
- 2.Questions to the right indicate full marks.
- 3.Draw neat and labelled diagrams wherever necessary.

Q.1 .Long questions.[any2]

20

- a.Describe in details life cycle of Bombyx mori.
- b.Explain in brief Silkworm fungal diseases.
- c.Explain Chouki rearing

Q.2.Write short notes on following[any2]

10

- a.Silkworm
- b.Types of moutages
- c.Moulting in silkworm



SHIVALINGESHWAR SHIKSHAN SANSTHA

**SHRI R.K.PATIL ARTS, COMMERCE AND
SCIENCE COLLEGE SANKH**

TAL - JATH DIST- SANGLI.

(Affiliated to Shivaji University, Kolhapur)

GRADUATE DEPARTMENT OF Zoology



CERTIFICATE

This is to Certify that Mr./Ms. PAWAR LAXMIKANT
BHAIRAVNATH has successfully completed the Add on
certificate course on “**Sericulture**” at Department of Zoology
in the academic year 2022-23


W.C. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412


Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



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Sr. No	Name of the documents
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Shri Shivalingeshwar Shikshan Sanstha's Sankh

**Shri R. K. Patil Arts, Commerce and Science College, Sankh.
Certificate Course**

In

"A Value Added Courses in Tourism"

Academic Year-2022-23

- **Name of the Course** :A Value Added Course in Tourism
- **Department** :Geography
- **Course Implementation Year** :22-23
- **Co-coordinator Name** :K.S. Biradar
- **Duration** :1 Months
(30Hours)
- **Course Fees** :Free of Cost
- **Eligibility** :H.S.C . Pass
- **Intake Capacity** :10



Shri R. K. Patil Arts, Commerce and Science College, Sankh

**Department of Geography
Academic Year-2022-23**

Objectives

1. To Familiarize the students with aspects of tourism which have relation with the subject matter Geography.
2. To orient the students to the logistics of tourism industries and the roll of tourism in regional development.
3. To familiarize the students with local , regional and national tourism and tourist centers.



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Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh

**Department of Geography
Academic Year-2022-23**

Learning Outcomes

Students seeking admission for the above value added course are expected to learn and acquire the knowledge of tourism activity and tourist centers.

- ❖ Concepts and types of tourism
- ❖ Tourism activity and recent trends in tourism
- ❖ Asses the environmental impact of tourism
- ❖ Elaborate the concept of sustainable development of tourism



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Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh

Department of Geography
Academic Year-2022-23
"A Value Added Courses in Tourism"

Syllabus

UNIT I: Introduction and components of Tourism

1.1 Definition of Tourism and Tourist

1.2 Geographical, Social and Cultural components

1.3 Significance of Tourism

UNIT II: Tourism Centers in Maharashtra

2.1 Natural tourism centers

2.2 Religious tourism centers

2.3 Historical tourism centers

UNIT III: Organization of Tour: Aspects of organization of Tour

3.1 Importance of Tour

3.2 Objectives of Tour

3.3 Economic Planning

3.4 Framework of Tour

3.5 Choice of Tourism Centres

3.6 Duration of Tour

3.7 Distance of Tour

3.8 Means of Transportation

3.9 Age Group

3.10 Accommodation

Reference Books:-

- 1. Bhatia A.K.: International Tourism**
 - 2. Bhatia A.K.: Tourism Development**
 - 3. Dhar Pram Nath: Development of Tourism and Travel Industry**
 - 4. Gupta V.N.: Tourism in India**
 - 5. Negi Jagmohan: Tourism Development and Resource Conservation**
 - 6. Pearce Douglas: Tourism Development**
 - 7. Robinson R. Geography of Tourism**
 - 8. Sharma K.C.: Tourism: Policy, Planning strategy.**
-

9. Sinha P.C.: Tourism Marketing

10. Singh Shawni: Principles of Indian Tourism

11. Singh S.N.: Geography of Tourism and Recreation

12. Geography of Tourism: Distance Education Department, Shivaji University, Kolhapur.

13. शिंदे एस. बी.: पर्यटन भूगोल,

14. धारपुरेव्ही.टी.: पर्यटन भूगोल, पिंपळापुरे पब्लिकेशन, नागपूर,


(Course Coordinator)



!! Dhairyam Sarvatra Sadhanam !!

Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh

Department of Geography

Time Table

January – February 2022-23

Day	Monday	Tuesday	Wednesday	Thursday
Time	12:30 pm to 1:30 pm	12:30 pm to 1:30 pm	12:30 pm to 1:30 pm	12:30 pm to 1:30 pm
Teacher	KS.Birjadar	KS.Birjadar	A .S . Yalmar	A .S . Yalmar

K. S. B: prof: K. S. Birjadar

A.S.Y: prof A .S . Yalmar


Dr. K. S. Birjadar
(Course Coordinator)



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DEPARTMENT OF GEOGRAPHY

ACADEMIC YEAR: -2022-23

"A VALUE ADDED COURSE IN TOURISM"

Nature of Examination

Examination Pattern: - One Paper of 100 Marks

- MCQs- 50 (Each MCQs-2 Marks)
- Total 100 Marks

Prof. K. S. Hirajdar
(Course Coordinator)



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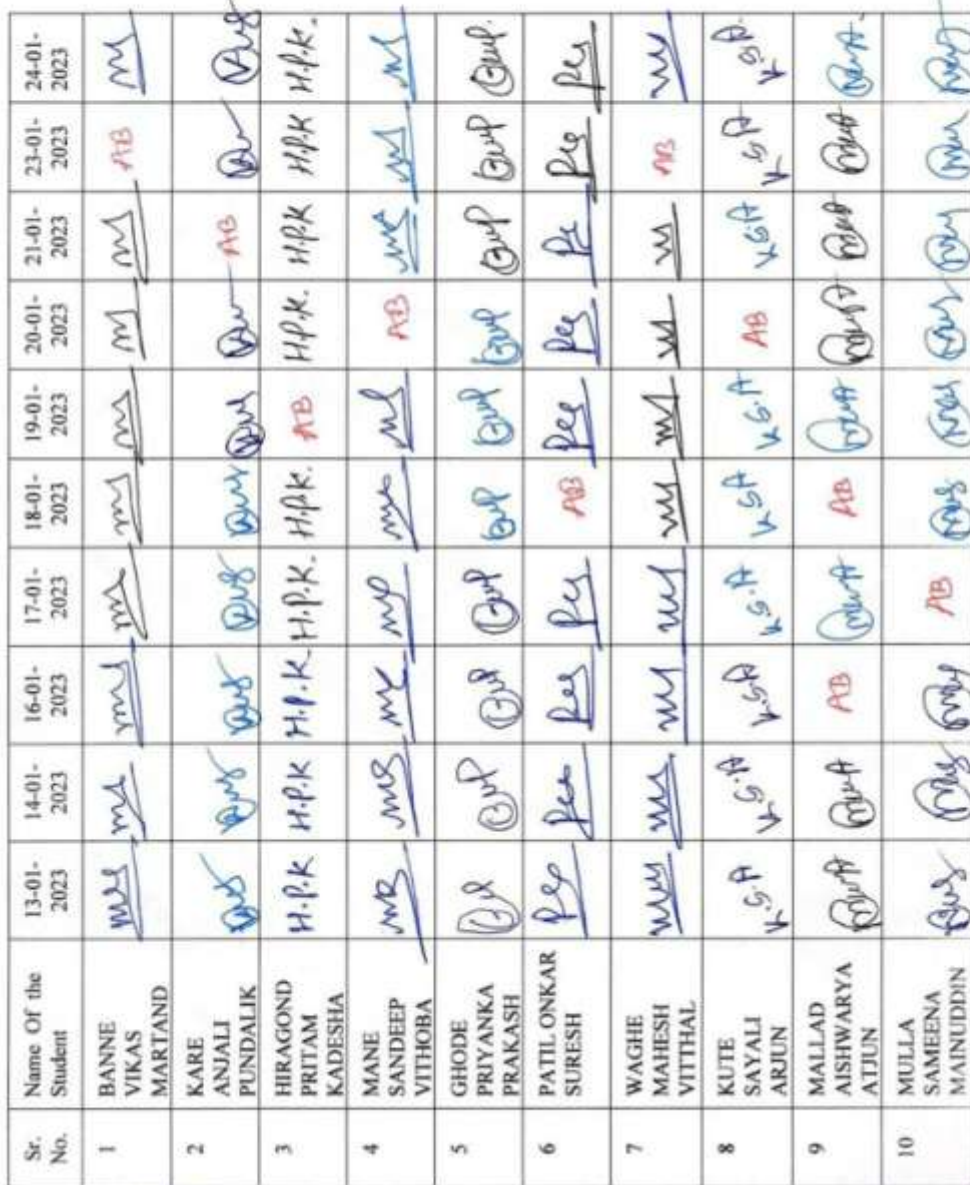
Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh

Department of Geography

Sr. No.	Name Of the Student	02-01-2023	03-01-2023	04-01-2023	05-01-2023	06-01-2023	07-01-2023	09-01-2023	10-01-2023	11-01-2023	12-01-2023
1	BANNE VIKAS MARTAN	ml	ml	ml	ml	ml	ml	AB	ml	ml	ml
2	KARE ANJALI PUNDALI	Qul	Qul	Qul	Qul	Qul	Qul	Qul	Qul	Qul	AB
3	HIRAGON D	H.P.K.	H.P.K.	H.P.K.	H.P.K.	H.P.K.	AB	H.P.K.	H.P.K.	H.P.K.	H.P.K.
4	PRITAM MANE SANDEEP VITHORA	ml	ml	ml	ml	ml	ml	ml	ml	ml	AB
5	GHODE PRIYANK A	Qul	Qul	Qul	AB	Qul	Qul	Qul	Qul	Qul	Qul
6	PATIL ONKAR SURESH	Per	Per	Per	Per	Per	Per	Per	Per	Per	Per
7	WAGHE MAHESH VITTHAL	ml	ml	ml	ml	ml	ml	ml	ml	AB	ml
8	KUTE SAYALI ARJUN	Qul	Qul	Qul	AB	Qul	Qul	Qul	Qul	Qul	Qul
9	MALLAD AISHWAR YA	Qul	Qul	Qul	Qul	Qul	Qul	AB	Qul	Qul	Qul
10	MULLA SAMEEN A	Qul	Qul	Qul	Qul	Qul	Qul	Qul	Qul	Qul	Qul





Shri R. K. Patil Arts, Commerce and Science College, Sankh

Department of Geography

Sr. No.	Name Of the Student	25-01-2023	27-01-2023	28-01-2023	30-01-2023	31-01-2023	01-02-2023	02-02-2023	03-02-2023	04-02-2023	06-02-2023
1	BANSE VIKAS MARTAND	ml	ml	ml	ml	AB	ml	ml	AB	ml	ml
2	KARE ANJALI PUNDALIK	K.M	K.M	K.M	K.M	K.M	K.M	AB	AB	K.M	K.M
3	HIRAGOND PRITAM KADESHA	H.P.K	H.P.K	H.P.K	H.P.K	H.P.K	H.P.K	H.P.K	H.P.K	H.P.K	H.P.K
4	MANE SANDEEP VITHOBA	ml	ml	ml	ml	ml	ml	ml	ml	ml	ml
5	GHODE PRIYANKA PRAKASH	G.P	G.P	G.P	G.P	G.P	G.P	G.P	G.P	G.P	G.P
6	PATIL ONKAR SURESH	P.S	P.S	P.S	P.S	P.S	P.S	P.S	P.S	AB	P.S
7	WAGHE MAHESH VITTHAL	ml	ml	ml	ml	ml	ml	AB	ml	ml	ml
8	KUTE SAYALI ARJUN	N.S	N.S	N.S	N.S	N.S	N.S	N.S	N.S	N.S	N.S
9	MALLAD AISHWARYA ATJUN	G.P	G.P	G.P	G.P	G.P	G.P	AB	G.P	G.P	G.P
10	MULLA SAMEENA MAINUDIN	G.P	G.P	G.P	G.P	G.P	G.P	G.P	G.P	G.P	AB



श्री आर के पाटील कला वाणिज्य विज्ञान महाविद्यालय संख
भूगोल विभाग

A Value Added Course in Tourism
(मूल्य वर्धित अभ्यासक्रम - पर्यटन) परीक्षा - २०२३

वार:- शनिवार, दिनांक:- ०६-०२-२०२३

वेळ - सकाळी ०८:०० ते ११:००

एकूण गुण: १००

- सूचना: १. सर्व प्रश्न आवश्यक आहेत.
२. प्रत्येक उपप्रश्नास दोन गुण आहेत.

प्रश्न १. खाली दिलेल्या प्रश्नांसाठी योग्य पर्याय निवडा.

१) काश्मीरमधील कोणती व्हॅली पर्यटनाच्या दृष्टीने प्रसिद्ध आहे?

- A) रिफ्ट व्हॅली B) किदार व्हॅली C) सायलेंट व्हॅली (D) तेहरी व्हॅली

२) आनंद उपभोगण्यासाठी कोण प्रवास करतो?

- A) विद्यार्थी (B) व्यापारी C) शास्त्रज्ञ

३) अलीकडे पर्यटनाचे स्वरूप कसे बनले आहे?

- C) आनंद A) चित्रात्मक (B) गतिशील (D) वर्णनात्मक

४) खालीलपैकी कोणती पर्यटन प्रेरणा असू शकत नाही?

- A) शारीरिक आराम B) शारीरिक आरोग्य C) पारंपारिक (D) वेतन

५) महाबळेश्वर हे थंड हवेचे ठिकाण कोठे आहे?

- A) पुणे जिल्हा B) सातारा जिल्हा C) सांगली जिल्हा (D) सोलापूर जिल्हा

६) "निसर्ग पर्यटन" हे काय म्हणून ओळखतात



(A) कृषी पर्यटन B) साहसी पर्यटन C) शाश्वत पर्यटन (D) वारसा पर्यटन

7) खालीलपैकी कोणते पर्यटन आनुमानानुसार होते?

A) राष्ट्रीय पर्यटन B) सागरी पर्यटन C) उन्हाळी पर्यटन D) हवाई पर्यटन

8) "जोग" खडबडा कोणत्या नदीवर आहे ?

A) गंगा B) कावेरी C) कृष्णा D) सरावती

9) पर्यटनातील आधुनिक संकल्पना कोणती आहे?

A) कृषीपर्यटन B) ऐतिहासिक पर्यटन C) प्रवास पर्यटन D) सामाजिक पर्यटन

10) चंद्रभागा नदीच्या तीरावर कोणते पवित्र धार्मिक ठिकाण आहे ?

A) आबोझा B) वाराणसी C) गया D) पंडरपूर

11) पर्यटनामुळे खालीलपैकी कोणता कायदा होतो?

A) राष्ट्र-राष्ट्रांमध्ये कलह B) दोन देशांमध्ये कलह
C) आंतरराष्ट्रीय सामंजस्य D) आंतरराष्ट्रीय कलह

12) "पर्यटन" हा शब्दाची उत्पत्ती कोणत्या शब्दापासून झाली आहे?

A) मॅटिन B) क्रैच C) दज D) वीक

13) पर्यटनाच्या व्याख्येमध्ये खालीलपैकी कशाचा समावेश होत नाही?

A) जनिवासी व्यक्ती C) व्यक्तीचे वास्तव्य रोजवाराच्या उद्देशाने
B) अस्थायी स्वरूपाचे वास्तव्य D) व्यक्तीचे वास्तव्य रोजवाराच्या उद्देशाने नसणे

14) खालीलपैकी पर्यटनाच्या स्वरूपामध्ये समाविष्ट न होणारा घटक कोणता?

A) भौगोलिक स्वरूप B) करमणूक स्वरूप C) सांस्कृतिक स्वरूप D) उत्पादन स्वरूप

15) जगात वार्षिक राष्ट्रीय कंपना सर्वप्रथम कोणत्या खंडामध्ये उदयास आली?

A) आशिया B) युरोप C) आफ्रिका D) ऑस्ट्रेलिया

16) सध्या जगात सर्वात वेगाने वाढणारा व्यवसाय कोणता आहे?

A) बँकटी B) मासेगारी C) पर्यटन D) ताखर कारखानदारी

17) खालीलपैकी कोणता प्राकृतिक घटक पर्यटनामध्ये महत्वाचा ठरतो?

A) वाहतूक B) निसर्ग सौंदर्य C) जलसिंचन D) शेती

- 18) "राष्ट्रानवरी अभिवारण" कोणत्या बन्वबीवसाडी प्रसिद्ध आहे?
- A) बाब B) यबा C) वेडा D) हली
- 19) कोणत्या देशाच्या अर्धवर्षांमध्ये पर्वटनाचा वाटा सर्वाधिक आहे?
- A) ऑस्ट्रेलिया B) डेटव्रिटन C) स्विझर्लंड D) जर्मनी
- 20) खालीलपैकी पर्वटनाची कोणती संकल्पना आधुनिक आहे?
- A) मानव पर्वट B) करमणूक पर्वट C) उन्हाळी पर्वट D) कुची पर्वट
- 21) पर्वटनाच्या विकासात कोणता घटक परिणामकारक ठरत नाही?
- A) हवामान B) जलप्रवाही C) पर्वट D) उद्योगधंदे
- 22) "पर्यावरणीय पर्वट" या संकल्पनेमध्ये खालीलपैकी कशाचा समावेश होत नाही?
- A) वन्य प्राण्यांचे संवर्धन B) नैसर्गिक वनसंपदेचे जतन
- C) पर्यावरणीय प्रदूषण D) पर्यावरण संवर्धन
- 23) ज्या पर्वटनामध्ये दोन किंवा दोनहून जास्त व्यक्तींचा समावेश असतो, त्या पर्वटनास काय म्हणतात?
- A) खावणी पर्वट B) व्यक्तिगत पर्वट C) समूह पर्वट D) व्यक्तिगत व खावणी पर्वट
- 24) साप्ताहिक सुट्टीची संकल्पना सर्वप्रथम कोणत्या देशांमध्ये सुरू झाली?
- A) जपानांमिस्तान B) बेल्जियम C) कॅनडा व इटली D) इटली
- 25) पर्वटनाच्या बाहेर परिणाम करणारा आर्थिक घटक कोणता आहे?
- A) बंद हवेची ठिकाणे B) उद्योगांची ठिकाणे
- C) समुद्रकिनारी ठिकाणे D) बाह्यदुकीची साधने
- 26) अयोध्या नगरी कोणत्या नदीच्या तीरावर वसली आहे?
- A) घागरा B) गंडक C) कोसी D) सरावली
- 27) खालीलपैकी कोणते बंद हवेचे ठिकाण नाही?
- A) मयूरी B) नैनिताल C) महाबळेश्वर D) मारनेश्वर
- 28) आसाममधील "काशीरंगा" हे राष्ट्रीय उद्यान कोणत्या बन्व प्राण्यांसाठी प्रसिद्ध आहे?
- A) मोर B) हरीण C) एक सिंगी गेंडा D) सिंह

- 29) भारतामध्ये पर्यटनाचा विकास होण्याच्या दृष्टीने खालीलपैकी कोणती संस्था कार्यरत आहे?
- A) ITDC B) MTDC C) ICTD D) MCTD
30. "ग्रेट वे ऑफ इंडिया" हे पर्यटनाचे आकर्षण केंद्र कोणत्या समुद्रकिनार्यावर आहे?
- A) हिंदी महासागर B) अरबी समुद्र C) बेंगलियन समुद्र D) भूमध्य समुद्र
31. खालीलपैकी प्राचीन कालखंडातील पर्यटन स्थळ कोणते आहे ?
- A) महाबळेश्वर B) लोणावळा C) काशी D) कलकत्ता
32. खालीलपैकी कोणत्या देशाच्या अर्थव्यवस्थेमध्ये पर्यटनाचा वाटा उल्लेखनीय आहे?
- A) भारत B) U.S.A C) पाकिस्तान D) स्वित्झर्लंड
33. MTDC चे मुख्यालय कोठे आहे?
- A) मुंबई B) पुणे C) नागपूर D) कोल्हापूर
34. जवोड्या हे खालीलपैकी कोणते पर्यटन स्थळ आहे?
- A) नैसर्गिक B) प्राकृतिक C) धार्मिक D) सांस्कृतिक
35. हिंदू धर्मियांचे दक्षिण भारतातील प्रसिद्ध पर्यटन स्थळ कोणते?
- A) बनारस B) देवप्रयाग C) तिरुपती D) पंढरपूर
36. शरावती नदीवर कोणता प्रबंधना आहे?
- A) सुबांधार B) जोग C) सहस्रधारा D) नावभारा
37. राजस्थानमधील बंढ हवेचे ठिकाण कोणते ?
- A) उटी B) सिमला C) बाजीपिंग D) मावंट जवू
38. काशीरेगा अभयारण्य कोणत्या प्राण्यासाठी प्रसिद्ध आहे?
- A) गेंडा B) बाघ C) सिंह D) नीलगाय
39. 'सरदार वल्लभ भाई पटेल' यांचे स्मारक कोणत्या शहरात आहे?
- A) महमदाबाद B) गांधीनगर C) बबोबा D) सुरत
40. नृसिंहवाडी हे तीर्थक्षेत्र कोणत्या नदी तीरावर वसले आहे?
- A) पंचगंगा B) कृष्णा C) भोगावती D) बारणा



41. कोणत्या शहरास पर्यटन राजधानी म्हणून ओळखतात ?
 A) पुणे B) मुंबई C) नागपूर D) औरंगाबाद
42. चितोडमधे किण्वा कोणत्या राज्यात आहे?
 A) राजस्थान B) कर्नाटक C) मध्यप्रदेश D) महाराष्ट्र
43. वृंदावन मार्गे कोणत्या राज्यात आहे?
 A) राजस्थान B) कर्नाटक C) मध्यप्रदेश D) महाराष्ट्र
44. उंट महोत्सव कोणत्या राज्यात साजरा केला जातो?
 A) राजस्थान B) गुजरात C) मध्यप्रदेश D) महाराष्ट्र
45. पर्यटन नियोजनामध्ये सर्वात महत्त्वपूर्ण घटक आहे?
 A) पर्यटन स्थळांची निवड B) पर्यटनाचा कालावधी/म्हणू
 C) वाहतुकीची साधने D) पैसांचे नियोजन
46. पर्यटन नियोजनामध्ये खालीलपैकी कोणत्या घटकाचा समावेश होत नाही ?
 A) पर्यटन स्थळांची निवड B) पर्यटनाचा कालावधी/म्हणू
 C) वाहतुकीची साधने D) पर्यटकांची संख्या
47. छत्रपती शिवाजी महाराजांचे मंदिर कोणत्या किण्यावर आहे?
 A) सिंधुदुर्ग B) तोरणा C) पुरंदर D) सिहगढ
48. जंजिरा हा कोणत्या जिल्ह्यातील प्रमुख जलदुर्ग आहे?
 A) रत्नागिरी B) रायगड C) सिंधुदुर्ग D) ठाणे
49. कृष्णा न कोयनेच्या संगमावर कोणते शहर वसले आहे?
 A) महाड B) कटाड C) कोल्हापूर D) ठाणे
50. बिद्रापुर लेणी कोणत्या जिल्ह्यात आहेत?
 A) रत्नागिरी B) कोल्हापूर C) सिंधुदुर्ग D) ठाणे



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Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

DEPARTMENT OF GEOGRAPHY

ACADEMIC YEAR: -2022-23

"A VALUE ADDED COURSE IN TOURISM"

Result & Distribution Of Certificates

Date :- 08th Feb, 2023

Sr no	Name of the student	Class	Marks obtained
01	Banne Vikas Marthand	B. A II	95
02	Kare Anjali Pundalik	B. A II	86
03	Hiragond pritam Kadesh	B. A II	90
04	Mane Sandeep Vithoba	B. A II	92
05	Ghode Priyanka Prakash	B. A II	84
06	Patil Omkar Suresh	B. A II	86
07	Whage Mahesh Vittal	B. A II	90
08	Kute Sayali Arjun	B. A II	92
09	Mallad Aishwarya Arjun	B. A II	90
10	Mulla Samina Mainuddin	B. A II	92

K. S. Birjdar
(Course Coordinator)





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DEPARTMENT OF GEOGRAPHY

ACADEMIC YEAR: -2022-23

"List of Students "

Sr no	Name of the student	Class	Marks obtained
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|| Dhairyam Sarvatra Sadhanam ||

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दिनांक: 12/02/2023

नोटीस

बी.ए. भाग तीन भूगोलाच्या सर्व विद्यार्थ्यांना याद्वारे कळविण्यात येते की तुमचे प्रमाणपत्र मार्गदर्शक वाटप या सोबत जोडले आहे. हे सर्व विद्यार्थ्यांसाठी अनिवार्य आहे. म्हणून, आपल्या प्रमाणपत्र मार्गदर्शकाच्या संपर्कात रहा आणि आपले प्रमाणपत्र पूर्ण करा.

Head
Department
Shri R. K. Patil
& Science
Tal. Jath, Dist. Sangli





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DEPARTMENT OF GEOGRAPHY

ACADEMIC YEAR: -2022-23

"A VALUE ADDED COURSE IN TOURISM"

REPORT

In the academic year 2022-23 department of Geography runs a value added course at B.A.II level. The name of the course is "A Value Added Course in Tourism". There are 10 students enrolled for this course. The duration of course is 30 Days (02.01.2023 to 06.02.2023) and this course was free for students. The faculty of the department taught the syllabus of the course there are three units in the syllabus of the course. The course has practical base it is completed successfully by the students of Geography at Second year.


Head
Department
Shri R. K. Patil
& Co.
Tal. Jath, Dist. Sangli



SHRI SHIVALINGESHWAR SHIKSHAN SANSTHA
SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE COLLEGE, SANKH.
TAL – JATH DIST- SANGLI.
(Affiliated to Shivaji University, Kolhapur)

DEPARTMENT OF GEOGRAPHY



CERTIFICATE

This is to Certify that *Mr. /Ms.* Mr. Banne Vikas Martand has successfully completed the “Certificate Course Of Preparation “A Value Added Course in Tourism” at U.G Department of Geography in R. K. Patil ACS College, Sankh. in the academic year 2022- 23


Co-ordinator


Dr. Dalawai S. P.

I/C Principle

U.C. P. Patil,
Arts, Commerce & Science College,
Sankh, Tal. Jath, Dist. Sangli-415412.

॥ Dhairyam Sarvatra Sadhanam ॥
Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh.

**Certificate Course
in
Women Health and Hygiene**



Department of Zoology
Shri R. K. Patil Arts,
Commerce and Science College,
Sankh. Tal- Jath, Dist-Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Ref.No.

Date :01/12/2022

To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangli.416412

Subject: "Regarding permission to commencement of certificate Course in
Women Health and Hygiene".

Respected sir,

With the reference to above subject, our Zoology department is going to conduct certificate course in
Certificate Course of Women Health and Hygiene for B. Sc. Students in this year academic year (2022-
23). So, I request you to give us permission to conduct above said course.

Thanking you,

Permission Granted
01/12/2022

[Signature]
Yours Faithfully

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Ref.No.

Date : 01/12/2022

Invitation Letter


To,
Mr. S. Sajjan
Head, Department of Zoology
R. R College Jath , Tal- Jath,
Dist- Sangli.416404

Subject: "Invitation for BOS meeting for the certificate
Course in Women Health and Hygiene"

Dear Sir,

I am pleased to inform you that you have been appointed as a member of BOS for the certificate course on "A Certificate Course in Women Health and Hygiene." Department of Zoology is going to organize BOS meeting on 05/12/2022 The meeting will start at 11.00 am. I expect that you will accept our invitation and oblige

Thanking you


Yours faithfully,

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





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Department of Zoology

Certificate Course Women Health and Hygiene

Meeting Notice

The meeting of the members of BOS in certificate course in **Women Health and Hygiene** is conveyed on 7th December 2022 for the preparation of syllabus.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Mr. G.S. Mali	Co-rodinator	
3	Mr. S.D. Gobbi	Member	
4	Mr. B.R. Madgyal	Member	

HOD

Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Zoology

Certificate Course Women Health and Hygiene

Academic Year -2022-23

Minutes of Meeting

The meeting of the members of BOS in certificate course **Women Health and Hygiene** on 8th December 2022 for the preparation of Course syllabus. The following members of present and prepared the syllabus of the above course and submitted to Co-ordinate, Shri. R. K. Patil. ACS College, Sankh.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Mr. G.S. Mali	Co-rodinator	
3	Mr. S.D. Gobbi	Member	
4	Mr. B.R. Madgyal	Member	

HOD

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College
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Women Health and Hygiene

Introduction:

Generally women health does not take care of themselves according to Indian culture each and every year look after all family member excluding herself. The Culture does not allow doing some hygienic thing which is requiring in case of every woman. It is our try to make the women strong by health and mind too. This course will provide at least some basic knowledge about.

Objective:

- To impart knowledge of health is the basic aim of this course.
- The girl's students accepted to acquire the knowledge of health and hygiene.
- To understanding the scientific methods of first aid.
- To understand self body structure and functions.

Duration and Intake Capacity –

Duration	Awards	Intake Capacity
03 Months	Certificate	30

Contents :

Topic 1	Understanding the women hood
Topic 2	Anatomy and Physiology of Women Body
Topic 3	Adolescent age – Psychological and Physiological changes in adolescence Health and Nutrition of Adolescence Girls, Problems of adolescence, Pubertal Changes, Genital Problems,Precaution and Prevention
Topic 4	Hygiene related to genital Problems
Topic 5	Menstruation Cycle, Normal Cycle, Abnormal Cycle, Emergencies



Topic 6	Sexual Relations – legitimate, Non- legitimate, safe, unsafe
Topic 7	Sexually Transferred Disease
Topic 8	Pregnancy – Phenomenon, Mechanism, Sex Determination, Physiological and Psychological Changes During Pregnancy Period, Exercise During Pregnancy.
Topic 9	Child Birth- Normal Process of Pregnancy Problem and emergencies, Development of child, Nutrition, Milestones in development, Importance of Mothers milk, Blind beliefs in child Development, Immunization And Vaccination, Abnormalities, Prenatal and neo-natal care, General accidents with Children, Prevention First aid and mental intervention.
Topic 10	Being With your Family

Practical's

Visit to Gynecologist's Interview of Pregnant women, Discussion with Doctor, Observation of Delivery, Visit to Pediatric Hospital, Dressing injunction, Application of Iv injection, physiotherapy, Yoga, Massage, Preparation of Nutritious food for Pregnant Women, mother and Child.

Contacts :

Coordinator Name : Mr. G.S. Mali

Faculty Name : 1) S.D. Gobbi 2) Mr. B.R. Madgyal





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Zoology

Women Health and Hygiene

B.Sc – I Academic Year -2022-23

List of enrolled students

Sr.No	Name of Student
1	Sutar Sonali Rajendra
2	Shendage Shashikala Devendra
3	Arali Revati Shrikant
4	Badakundri Pratibha Shivanand
5	Bastwad Suchitra Ramesh
6	Bhandare Saniya Lalsab
7	Chougule Surekha Mayappa
8	Devkar Pratiksha Nitin
9	Gaikwad Hempushpa Siddha
10	Hakke Manisha Kerappa
11	Halli Bhagyashree Siddanna
12	Hiremath Vrunda Shivashankar
13	Karajanagi Basavpooja Mahadev
14	Karape Kajal Siddhu
15	Karoli Supriya Sangappa
16	Loni Rajashri Balappa
17	Mali Amruta Prakash
18	Muchandi Shashikala Shrishail
19	Mundewadi Priti Ashok
20	Nandagaon Rani Shivanand
21	Rathod Shilpa Natu
22	Sawant Asmita Mohan

Course Co-ordinator

Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



HOD

Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V/100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Department of Zoology

Women Health and Hygiene

Academic Year -2022-23

Timetable

Sr. No	Time	Day	Day
1	3.30 to 4.30 pm	Monday (Lecture)	Saturday (Lecture)
2	4.45 to 5.45 pm	Monday (Lecture)	Saturday (Practical)



Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri. Shivalingeshwar Shikshan Sanstha's Sankh
Shri. R. K. Patil Arts, Commerce and Science College,
Sankh.
Department Of Zoology (2022-23)
Women Health and Hygiene

Day and Date :

Time :

Marks : 30M

Instructions: 1) select the correct alternative from the given options.

2) Each question is carry two marks.

3) All questions are compulsory

- 1) The absorption of fructose by intestinal mucosa Is.....
 - a) Co-transport mechanism
 - b) simple diffirsion
 - c) facilitated transport
 - d) active transport
- 2) The gaseous exchange in alveoli is a type of
 - a) Simple Diffusion
 - b) Osmosis
 - c) Active Transport
 - d) Passive Transport
- 3) Which one of the following plasma proteins is involved in the coagulation of blood?
 - a).Fibrinogen
 - b) Serum amylase
 - c) Globulin
 - d).Albumin
- 4) Falloplan tubes are also called as -----
 - a) Oviducts
 - b) Follicles
 - c) Fimbriae
 - d) Latium
- 5) The period of _ is known as adolescence.
 - a) 11 to 19 years
 - b) 5 to 10 years
 - c) 30 to 40 years
 - d) 22 to 28 years
- 6)controls the changes occurring during adolescence.
 - a) Hormones
 - (b) Enzyme
 - (c) Lymph
 - (d) None of the above
- 7) Ovulation generally takes Place at the of a menstrual cycle.
 - a) day 18
 - b) day 1
 - (c) Day 8
 - (d) days 1
- 8) Which of these hormones does not increase during pregnancy ?
 - a) Testosterone
 - b) Progesterone
 - (c) Estrogens
 - (d) Human Chorionic
- 9) Who Discovered oxytocin ?
 - a) John Roberts
 - b) Ivan Pavlo
 - (c) Charles Darwin
 - (d) Henry Day
- 10) Which of the given Below sexually transmitted disese in completely curable
 - a) Trichimionsis
 - b) Genital herps
 - (c) Hepatitis B
 - (d) HIV – infecti





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Department of Zoology
Women Health and Hygiene
Result Academic Year 2022-23

Sr.No	Name of Student	MCQ (20)	Oral (10)	Total out of 30
1	Sutar Sonali Rajendra	18	8	26
2	Shendage Shashikala Devendra	16	7	23
3	Arali Revati Shrikant	14	8	22
4	Badakundri Pratibha Shivanand	16	7	23
5	Bastwad Suchitra Ramesh	16	8	24
6	Bhandare Saniya Lalsab	18	6	24
7	Chougule Surekha Mayappa	16	8	24
8	Devkar Pratiksha Nitin	14	8	22
9	Gaikwad Hempushpa Siddha	16	7	23
10	Hakke Manisha Kerappa	14	6	20
11	Halli Bhagyashree Siddanna	14	5	19
12	Hiremath Vrunda Shivashankar	16	6	22
13	Karajanagi Basavpooja Mahadev	18	7	25
14	Karape Kajal Siddhu	16	8	24
15	Karoli Supriya Sangappa	14	6	20
16	Loni Rajashri Balappa	14	7	21
17	Mali Amruta Prakash	12	8	20
18	Muchandi Shashikala Shrishail	14	7	21
19	Mundewadi Priti Ashok	16	8	24
20	Nandagaon Rani Shivanand	14	7	21
21	Rathod Shilpa Natu	12	7	19
22	Sawant Asmita Mohan	16	8	24





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Department of Zoology
Women Health and Hygiene
Academic Year -2022-23

REPORT

Department of Zoology runs a Short Term Courses "Women Health and Hygiene" Only for girls students of all Faculty streams. During this academic year there was good response from the students then also for continuity of the course the department is taking efforts to run the same course. This year 22 students participated in this course. The lectures are conducted in the department of zoology by the faculty members along with the Practical's. The course syllabus contains all the informative topics concerned with women health and hygiene. The practical's are conducted in the department of in which the first aid, measuring the blood Pressure, Pulse, Hemoglobin etc. are demonstrated in the participants. The practical's like intravenous injections, parturitions, dressing and nursing are demonstrated in the nearby hospital under the guidance of expert doctor and nurses. The nominal fees Rs.500 (Rupees Five Hundred only) Is collected from the participant girls for the enrollment in this course.



Shri. Shivalingeshwar Shikshan Sanstha's Sankh

Shri. R. K. Patil Arts, Commerce and Science College, Sankh.

Department Of Zoology (2022-23)

Women Health and Hygiene

Student Attendance

Sr No	Name of Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Sutar Sonali Rajendra	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R
2	Shendage Shashikala Devendra	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
3	Arati Revati Shrikant	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
4	Badakundi Pratibha Shivanand	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
5	Bastwad Suchitra Ramesh	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
6	Bhandare Saniya Lalsab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
7	Chougule Surekha Mayappa	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
8	Devkar Pratiksha Nitin	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
9	Gaikwad Hempushpa Siddha	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
10	Hakke Manisha Kerappa	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
11	Hali Bhagyashree Siddanna	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
12	Hiremath Vrunda Shivashankar	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
13	Karajanagi Basavpooja Mahadev	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
14	Karape Kajal Siddhu	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
15	Karoli Supriya Sangappa	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
16	Loni Rajashri Balappa	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
17	Mali Amrula Prakash	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
18	Muchandi Shashikala Shrishail	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
19	Mundewadi Priti Ashok	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
20	Nandagaon Rani Shivanand	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
21	Rathod Shilpa Natu	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
22	Sawant Asmita Mohan	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab



Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tat-Jath, Dist-Sangli

Shri. Shivalingeshwar Shikshan Sanstha's Sankh

Shri. R. K. Patil Arts, Commerce and Science College, Sankh.

Department Of Zoology (2022-23)

Short Term Course on Women Health and Hygiene

Student Attendance

Sr No	Name of Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Sutar Sonali Rajendra	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
2	Shendage Shashikala Devendra	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
3	Arali Revati Shrikant	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
4	Badakundi Pratibha Shivanand	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
5	Patilwade Suchitra Ramesh	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
6	Wandare Saniya Lalab	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
7	Chougule Surekha Mayappa	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
8	Devkar Pratiksha Nitin	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
9	Patilwade Hempushpa Siddha	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
10	Hakke Manisha Kerappa	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
11	Halli Bhagyashree Siddanna	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
12	Hiremath Vrudha Shivashankar	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
13	Karjanagi Basavpooja Mahadev	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
14	Karape Kajal Siddhu	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
15	Karoli Supriya Sangappa	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
16	Loni Rajashri Balappa	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
17	Mali Amruta Prakash	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
18	Muchandi Shashikala Shrishail	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
19	Mundewadi Priti Ashok	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
20	Nandagaon Rani Shivanand	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
21	Rathod Shilpa Natu	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
22	Sawant Asmita Mohan	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR

Head

Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

SHIVALINGESHWAR SHIKSHAN SANSTHA, S SANKH
**SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE
COLLEGE, SANKH.**


TAL - JATH DIST- SANGLI.
(Affiliated to Shivaji University, Kolhapur)
DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to Certify that **Mr. /Ms. Anali Revati Shrikant** has
successfully completed the "Certificate Course **Women Health and Hygiene**
Department of Zoology in **1st class** in the academic year 2022- 23.


Co-ordinator
Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli


Dr. Dalawai S.P
I/C Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

II Dhairyam Sarvatra Sadhanam II
Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh.

Certificate Course

In

“PREPARATION OF HOUSEHOLD CHEMICALS”



**Department of Chemistry,
Shri RK Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli**

Technology of Soap: Chemistry of soap; Raw material for soap industry and their selection; hard fats yielding and oil yielding soaps; Chemical reactions of soaps; Hard and Soft soaps.

UNIT IV

(06 Lectures)

Detergents and surfactants: Introduction; Different terms used in detergents; Raw materials for detergents; Washing action of detergents; Types of detergents; Introduction of surfactants.

Recommended Books: (Unit wise)

1. Small scale industries and house hold industries in developing economy by Shetty M.C. (Unit I)
2. Manufacture of perfume cosmetics and detergents by Prasad Giri Raj (Unit V)
3. Industrial chemistry by B. K. Sharma (Unit I and II)
4. Flavors & Essential oils, Industries SBP Board (Unit III)
5. Perfumes soaps & cosmetics by Poucher.(Unit III)
6. Manufacture of perfumes, cosmetics and detergents by Giriraj Prasad (Unit IV)
7. Manufacture of perfumes, cosmetics and detergents by Prasad. (Unit IV)

Learning Outcomes:

Unit I Household Chemicals

1. The students should learn fundamentals household chemicals.
2. The students should define house hold products, various processes of household products
3. The students should explain preparations and reactions of household chemicals, history of household products.

Unit II Cleaning agents

1. The students should learn fundamentals of various cleaning agents.
2. The students should define natural, floor, toilet, bathroom and kitchen cleaning agents
3. The students should explain preparations and reactions of natural, floor, toilet, bathroom and kitchen cleaning agents

Unit III Technology of Soap

1. The students should learn technology of soap
2. The students should define soap, hard and soft soap, liquid soap
3. The students should explain preparations and reactions of soap, liquid soap

Unit IV Detergents and surfactants

1. The students should learn fundamentals of detergents and surfactants
2. The students should define detergents, surfactants
3. The students should explain preparations and various types of detergents and surfactants

Practical Course: CCL 102: Preparation of various household Products

Contact Hrs. 48

1. Preparation of sanitary acid
2. Preparation of liquid soap
3. Preparation of white phenyl
4. Solid soap manufacture
5. Extraction of active principle of herbal products: Babul, Chandan, haldi, Jasmin, Reetha and Neem.
6. Practical based on preparation of various cosmetic products by using herbal principle: Shampoo and Mouth wash.

Recommended Books:

1. Vogel's text book of Qualitative Chemical Analysis (Longman ELBS Edition)
2. Vogel's text book of Quantitative Analysis (Longman ELBS Edition)
3. Practical Organic Chemistry by A.I. Vogel
4. Practical Organic Chemistry by O.P. Agrawal.

Index

Sr. No	Name of the documents
1	Brochure
2	Syllabus
3	Permission letter
4	Meeting Notice
5	Minute Meeting
6	Notice
7	Registration
8	Time table
9	Attendance
10	Out Come
11	Certificate



CERTIFICATE COURSE OF PREPARATION OF HOUSEHOLD CHEMICALS

SYLLABUS

TITLE: Processing and Preparation of Household Chemicals

1. YEAR OF IMPLEMENTATION: 2022-23

2. PREAMBLE: This syllabus is prepared for 12th pass with Chemistry students. At this level, to develop their interest towards household chemistry and also to prepare them for the industrial exposure. The interdisciplinary approach with vigor and depth is compatible to the syllabi of other universities. The units in the syllabus are well defined with scope and the number of lectures. The references are mentioned with relevance.

3. GENERAL OBJECTIVES OF THE COURSE:

1. The students are expected to understand the fundamentals, basic principles, concepts and recent developments in the subject area.
2. The practical course is in relevance to the theory courses to improve the understanding of the concepts.

4. DURATION: 3 Months

5. ELIGIBILITY TO COURES: 12th pass with Chemistry

6. MEDIUM OF INSTRUCTION: English

7. STRUCTURE OF COURSE:

Paper No. and Name
CCT 101: Introduction of Household Chemicals
CCL 102: Preparation of various household Products
CCP 103: Project on household Chemicals

A) LIBRARY: Reference and Textbooks, Journals and Periodicals, Reference Books for Advanced Books for Advanced studies.

B) SPECIFIC EQUIPMENTS: Computer, LCD, Projector, Visualizer, Smart board

C) Laboratory Equipment:

1. Digital balance with 1 mg accuracy	2. Burette, pipette and conical flask	3. 1/10°C thermometer
4. Polythene bottles ,	5. Measuring cylinder	6. Stopper bottle
7. Test tube, Beaker	8. Evaporating dish	9. Glass rod
10. Wire gauze	11. Burner	12. Water bath
13. Tripod stand	14. Burettes stand	15. Iron stand
16. Test tube holder	17. Test tube stands	18. Dropper

Learning Outcomes:

1. Preparation of sanitary acid

1. Students should define meaning of sanitary acid
2. Students should know different preparation of sanitary acid
3. Students should prepare various normality sanitary aci

2. Preparation of liquid soap

1. Students should define liquid soap
2. Students should know different reactions for preparation of liquid soap
3. Students should prepare liquid soap

3. Preparation of white phenyl

1. Students should define white phenyl
2. Students should know preparation of white phenyl
3. Students should prepare various compositions of phenyl

4. Solid soap manufacture

1. Students should define soap
2. Students should know different reactions for preparation of soap
3. Students should prepare various soaps

5. Reraction of active principle of herbal products: Babul, Chandan, haldi, Jasmin, Reetha and Neem.

1. Students should define herbal product, extraction technique.
2. Students should know different reactions for preparation of herbal products
3. Students should prepare various extracts of babul, chandan, haldi, jasmin, reetha, neem

4. Practical based on preparation of various cosmetic products by using herbal principle: Shampoo and Mouth wash.

1. Students should define cosmetic products
2. Students should know different reactions for preparation cosmetic products
3. Students should prepare shampoo and mouth

Evaluation System:

All the students will be continuously evaluated by,

a. Attendance	05 M
b. Assignments	05 M
c. Theory examination	40 M
d. Practical examination	30 M
e. Project	20 M
Total	100 M

Theory: Paper I: Introduction to Household Products Learning

Objectives:

1. To expose the students to various emerging new areas of Chemistry and apprise them with their prevalent in their future studies and their applications in various spheres of chemical sciences.
2. To enhance student sense of enthusiasm for chemistry and to involve them in an intellectually stimulating experience of learning in a supportive environment.

CCT 101: Introduction of Household Chemicals

Contact Hrs: 24

UNIT I

(06 Lectures)

Household chemicals: History of household Industry, Basic Theory of Household Chemicals, and Raw material required for household product, Product manufacture in household industry.

Role of household product in day to day life.

UNIT II

(06 Lectures)

Cleaning agents: Introduction, synthesis and applications of Natural cleaning agents, cleaning action, Floor cleaner, Toilet Cleaner, Bathroom Cleaner, Kitchen Cleaner

UNIT III

(06 Lectures)

5. Practical Organic Chemistry by F. G. Mann & B. C. Sounders
6. Comprehensive Practical Organic Chemistry Qualitative Analysis by V. K. Ahluwalia
7. A Text Book of Quantitative Inorganic Analysis Including Elementary Instrumental Analysis: A.I. Vogel (Third Ed.).

Project course: CCP 103: Project on household Chemicals





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Ref.No.

Date: 10/07/2022


To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course of Preparation
of Household Chemicals.

Respected sir,

With the reference to above subject, our Chemistry department is going to conduct
certificate course of Preparation of Household Chemicals for B. Sc. Students in this year
academic year (2022-23). So, I request you to give us permission to conduct above said
course.

Thanking you,


Yours Faithfully

Department of Chemistry,
Shri RK Patil ACS College Sankh,
Tal- Sankh,Dist-Sangli



Remitted to
Gandhi
11/07/22



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

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Graduate Department of Chemistry
CERTIFICATE COURSE OF PREPARATION OF
HOUSEHOLD CHEMICALS

Meeting Notice

The meeting of the members of BOS in certificate course Of Preparation of Household Chemicals is conveyed on 12/07/2022 for the preparation of syllabus.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Miss. D.V. Wagholi	Co-ordinator	
3	Mr.Haladaki A.S	Member	
4	Mr.Biradar R.B	Member	
5	Mr.Shiragatti K.M	Member	

HOD

Department
Shri. R. K. Patil
Head
Chemistry
Commerce
Tal. Sangli
Dist. Sangli



Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

Date: - 15/07/2023

Notice

All students of B.Sc-III are hereby informed that, Department of Chemistry going to organized by certificate course of Preparation of Household Chemicals in has been scheduled from 22/07/2022 to 22/10/2022 Kindly, remain present at prescribed time in lecture hall.


Course Co-ordinator




HOD
Head
Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



mail : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Ci@unishivaji.ac.in

Department of Chemistry

"CERTIFICATE COURSE OF PREPARATION OF HOUSEHOLD CHEMICALS"

Academic Year -2022-23

Registration

Sr.No	Name
1	SONA VANE R.S.
2	BIRADAR V. R.
3	BIRADAR A.T.
4	MANE P. P.
5	VHANAMANE RK.
6	NADAF S. H.
7	BIRADAR S.C.
8	TATITTELI M. R.
9	NILE M. K.
10	BIRAJADAR D.S.
11	RATHOD S.F.
12	KUMBAR D. R.
13	MALI V. L.
14	MISAL M. M.
15	SHILEEN V. S.
16	CHOUGULE A. A.
17	BIRADAR P.B.
18	KOLI S.M.
19	KODALKAR S. S.
20	SABALE S.H.
21	DHEPANE S.S.
22	MAGADUM S.M.
23	KATAKAR A. E.
24	KULKARNI G.S.
25	BHANDARE S. R.
26	KARE K. S.
27	KARAJANAGI A.S.
28	BIRADAR S. C.
29	SOUNDATTI R.R.
30	TERADAL C.M.
31	SAYAR P.P.
32	KAROLI G. S.





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Chemistry

CERTIFICATE COURSE of PREPARATION OF HOUSEHOLD CHEMICALS

Academic Year -2022-23

Minutes of Meeting

The meeting of the members of BOS in certificate course of Preparation of Household Chemicals is held on 13/07/2022 for the preparation of Course syllabus. The following members of present and prepared the syllabus of the above course and submitted to IQAC, Shri R K Patil ACS college Sankh.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Miss.D.V.Wagholi	Co-ordinator	
3	Mr.Haladaki A.S	Member	
4	Mr.Biradar R.B	Member	
5	Mr.Shiragatti K.M	Member	

HOD

Head
Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

33	TELI S.S.
34	JAGTAP A.J.
35	SHIRASHAD S.R.
36	WAGHE G.A.
37	PATTANASHETTI SI
38	KADAM L.B.
39	PATEL A.S.
40	MANE A.S.
41	JAGTAP R.K.
42	CHIKODI B. M.
43	PANDHARE P.S.
44	PUJARI G.A.
45	MUNJE P.A.
46	HIRAGOND N.I.
47	KUMBAR R. R.
48	BARAKADE R.M.
49	JADHAV N. S.




Head
Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli

Graduate Department of Chemistry
"CERTIFICATE COURSE OF PREPARATION OF
HOUSEHOLD CHEMICALS"

Academic Year -2022-23

Time Table

Course Commencement: **20/07/2022 to 22/10/2022**

Class	Time	Friday (22/07/2022 to 21/10/22)	Saturday (23/07/2022 To 22/10/22)
Theory	1:30 to 2:30	WDV	HAS
Practical	2:30 to 4:30	RBB	SKM



Course Co- ordinate



HOD

Head

Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sangh
Tal. Jath, Dist. Sangli

Attendance Sheet

[illegible]

22	MAGADUM S.M.	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM
23	KATAKAR A. E.	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
24	KULKARNI G.S.	ES	ES	ES	Ab	ES	ES	ES	ES	ES	ES
25	BHANDARE S. R.	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
26	KARE K. S.	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
27	KARAJANAGI A.S.	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS
28	BIRADAR S. C.	ES	ES	ES	ES	ES	ES	Ab	ES	ES	ES
29	SOUDATTI R.R.	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR
30	TERADAL C.M.	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
31	SAYAR P.P.	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
32	KAROLI G. S.	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS	Ab
33	TELI S.S.	TSS	TSS	TSS	TSS	TSS	TSS	TSS	TSS	TSS	TSS
34	JAGTAP A.J.	JAS	JAS	JAS	JAS	JAS	JAS	JAS	Ab	JAS	JAS
35	SHIRASHAD S.R.	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR
36	WAGHE G.A.	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
37	PATTANASHETTI SI	ES	ES	ES	ES	ES	Ab	ES	ES	ES	Ab
38	KADAM L.B.	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS
39	PATEL A.S.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
40	MANE A.S.	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM
41	JAGTAP R.K.	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK
42	CHIKODI B. M.	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM
43	PANDHARE P.S.	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS
44	PUJARI G.A.	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA
45	MUNJE P.A.	MUNJE	MUNJE	MUNJE	MUNJE	MUNJE	MUNJE	MUNJE	MUNJE	MUNJE	MUNJE
46	HIRAGOND N.L.	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L
47	KUMBAR R. R.	KRR	KRR	KRR	KRR	Ab	KRR	KRR	Ab	Ab	Ab
48	BARAKADE R.M.	BRM	BRM	BRM	BRM	BRM	BRM	BRM	BRM	BRM	Ab
49	JADHAV N. S.	JNS	JNS	JNS	Ab	JNS	JNS	Ab	JNS	Ab	Ab

Course Co-ordinator



HOD
Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli

Academic Year -2022-23

Attendance Sheet

[illegible]

21	DHEPANE S.S.	DS	DS	DS	DS	DS	DS	DS	DS	DS	DS
22	MAGADUM S.M.	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM
23	KATAKAR A. E.	R	R	R	Ab	R	R	R	R	Ab	Ab
24	KULKARNI G.S.	BS	BS	BS	BS	BS	Ab	BS	BS	BS	BS
25	BHANDARE S. R.	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR
26	KARE K. S.	KS	KS	KS	KS	KS	KS	KS	KS	KS	KS
27	KARAJANAGI A.S.	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	Ab	Ab
28	BIRADAR S. C.	BS	BS	BS	BS	BS	BS	BS	BS	Ab	Ab
29	SOUDATTI R.R.	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	Ab	SRR
30	TERADAL C.M.	Tcm	Tcm	Tcm	Tcm	Tcm	Tcm	Tcm	Tcm	Ab	Ab
31	SAYAR P.P.	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
32	KAROLI G. S.	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS	Ab	Ab
33	TELI S.S.	Telss	Telss	Telss	Telss	Telss	Telss	Telss	Telss	Telss	Telss
34	JAGTAP A.J.	JAS	JAS	JAS	JAS	JAS	JAS	JAS	JAS	Ab	Ab
35	SHIRASHAD S.R.	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	Ab	Ab
36	WAGHE G.A.	WGA	WGA	WGA	WGA	WGA	WGA	WGA	WGA	WGA	WGA
37	PATTANASHETTI SI	BP	BP	BP	BP	BP	BP	BP	BP	Ab	BP
38	KADAM L.B.	KLS	KLS	KLS	KLS	KLS	KLS	KLS	KLS	KLS	KLS
39	PATEL A.S.	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
40	MANE A.S.	MANE AS	MANE AS	MANE AS	MANE AS	MANE AS	MANE AS	MANE AS	MANE AS	MANE AS	MANE AS
41	JAGTAP R.K.	JAK	JAK	JAK	JAK	JAK	JAK	JAK	JAK	Ab	JAK
42	CHIKODI B. M.	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM
43	PANDHARE P.S.	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
44	PUJARI G.A.	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA
45	MUNJE P.A.	MUNJE	MUNJE	Ab	MUNJE	Ab	MUNJE	MUNJE	MUNJE	Ab	MUNJE
46	HIRAGOND N.L.	H.N.L	H.N.L	Ab	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L	H.N.L
47	KUMBAR R. R.	RKR	Ab	RKR	RKR	RKR	Ab	RKR	RKR	RKR	RKR
48	BARAKADE R.M.	BRM	BRM	BRM	BRM	BRM	BRM	BRM	BRM	BRM	BRM
49	JADHAV N. S.	JNS	JNS	JNS	JNS	JNS	JNS	JNS	JNS	JNS	JNS

Course Co-ordinator



Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Graduate Department of Chemistry

"CERTIFICATE COURSE OF PREPARATION OF HOUSEHOLD CHEMICALS"

Academic Year -2022-23

Attendance Sheet

Sr. No	Name of Student	01/10/22	7/10/22	08/10/22	14/10/22	15/10/22	21/10/22	22/10/22	-	-	-
1	SONAVANE R.S.	S	S	S	S	S	S	S	Ab	Ab	Ab
2	BIRADAR V. R.	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT
3	BIRADAR A.T.	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT
4	MANE P. P.	MPP	Ab	MPP	MPP	MPP	MPP	MPP	Ab	Ab	Ab
5	VHANAMANE RK.	VRK	VRK	VRK	VRK	VRK	VRK	VRK	Ab	Ab	Ab
6	NADAF S. H.	NHS	NHS	NHS	NHS	NHS	NHS	NHS	Ab	Ab	Ab
7	BIRADAR S.C.	BSC	BSC	Ab	BSC	BSC	BSC	BSC	Ab	Ab	Ab
8	TATTITELI M. R.	TRK	TRK	TRK	TRK	TRK	TRK	TRK	Ab	Ab	Ab
9	NILE M. K.	NMB	NMB	NMB	NMB	NMB	NMB	NMB	Ab	Ab	Ab
10	BIRAJADAR D.S.	BS	BS	BS	BS	BS	BS	BS	Ab	Ab	Ab
11	RATHOD S.F.	RT	RT	RT	RT	RT	RT	RT	Ab	Ab	Ab
12	KUMBAR D. R.	BL	BL	BL	BL	BL	BL	BL	Ab	Ab	Ab
13	MALI V. I.	MV	MV	MV	MV	MV	Ab	MV	Ab	Ab	Ab
14	MISAL M. M.	MM	MM	MM	MM	MM	MM	MM	Ab	Ab	Ab
15	SHILEEN V. S.	SVS	SVS	SVS	SVS	SVS	SVS	SVS	Ab	Ab	Ab
16	CHOUGULE A. A.	CA	CA	CA	CA	CA	Ab	CA	Ab	Ab	Ab
17	BIRADAR P.B.	PB	PB	PB	PB	Ab	Ab	PB	Ab	Ab	Ab
18	KOLI S.M.	KSM	KSM	KSM	KSM	Ab	Ab	KSM	Ab	Ab	Ab
19	KODALKAR S. S.	KSS	KSS	KSS	KSS	Ab	KSS	KSS	Ab	Ab	Ab
20	SABALE S.H.	SSH	SSH	SSH	SSH	Ab	SSH	SSH	Ab	Ab	Ab
21	DHEPANE S.S.	DS	DS	DS	DS	DS	Ab	DS	Ab	Ab	Ab

22	MAGADUM S.M.	msm	msm	msm	msm	msm	msm	msm	Ab	Ab	Ab
23	KATAKAR A. E.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
24	KULKARNI G.S.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
25	BHANDARE S. R.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
26	KARE K. S.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
27	KARAJANAGI A.S.	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	Ab	K.A.S.	Ab	Ab	Ab
28	BIRADAR S. C.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
29	SOUDATTI R.R.	S.R.R	S.R.R	S.R.R	S.R.R	S.R.R	S.R.R	S.R.R	Ab	Ab	Ab
30	TERADAL C.M.	Tcm	Tcm	Tcm	Tcm	Tcm	Ab	Tcm	Ab	Ab	Ab
31	SAYAR P.P.	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp
32	KAROLI G. S.	K.G.S	K.G.S	K.G.S	K.G.S	K.G.S	K.G.S	K.G.S	Ab	Ab	Ab
33	TELI S.S.	Teliss	Teliss	Teliss	Teliss	Teliss	Teliss	Teliss	Teliss	Teliss	Teliss
34	JAGTAP A.J.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
35	SHIRASHAD S.R.	SSR	SSR	SSR	SSR	SSR	Ab	Ab	Ab	Ab	Ab
36	WAGHE G.A.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
37	PATTANASHETTI SI	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
38	KADAM L.B.	Kam	Kam	Kam	Kam	Kam	Kam	Kam	Ab	Ab	Ab
39	PATEL A.S.	RS	RS	RS	RS	RS	RS	RS	RS	RS	RS
40	MANE A.S.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
41	JAGTAP R.K.	J.R.K	J.R.K	J.R.K	J.R.K	J.R.K	J.R.K	J.R.K	Ab	Ab	Ab
42	CHIKODI B. M.	CBM	CBM	CBM	CBM	CBM	CBM	Ab	Ab	Ab	Ab
43	PANDHARE P.S.	PBS	PBS	PBS	PBS	PBS	PBS	PBS	Ab	Ab	Ab
44	PUJARI G.A.	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA
45	MUNJE P.A.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
46	HIRAGOND N.L.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
47	KUMBAR R. R.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
48	BARAKADE R.M.	BRM	BRM	BRM	BRM	BRM	BRM	BRM	Ab	Ab	Ab
49	JADHAV N. S.	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S

Course Co-ordinator



HQD Head

Department of Chemistry
S. K. Patil Arts, Commerce & Science College,
Tal. Jath, Dist. Sangli.

Shri R. K. Patil Arts, Commerce and Science College, Sankh.

Certificate Course, in
"PREPARATION OF HOUSEHOLD CHEMICALS"

Certificate Course

Objectives of Course


- 1) To expose the students to the various new emerging areas of chemistry and apprise them with their prevalent use in the future studies and their application in various spheres of chemical science.
- 2) To enhance student's sense of enthusiasm for chemistry and involve them in an intellectually stimulating expression of learning in a supportive environment.

Benefits of the course

- 1) Test
- 2) Practical training
- 3) Certificate
- 4) 3 month
- 5) Conceptual discussion



For B.Sc-III (Chemistry Students)


Miss. Wagholi D.V.
Course Co-ordinator


Dr. S.P. Dalawai
Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce & Science College,
Sankh, Dist. Solapur, Maharashtra 415 412



SHIVALINGESHWAR SHIKSHAN SANSTHA

SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE COLLEGE SANKH

TAL - JATH DIST- SANGLI.


(Affiliated to Shivaji University, Kolhapur)

GRADUATE DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to Certify that Mr./Ms. *Kulkarni Gayatri Sunil* has successfully completed the "Preparation of Household Chemicals" at Postgraduate Department of Chemistry in the academic year 2022-2023


Miss. Wagholi D.V.
Course Co-ordinator


Dr. Dalawai S.P.
I/C Principal,
Shri R. K. Patil Arts, Commerce & Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

॥ Dhairyam Sarvatra Sadhanam ॥

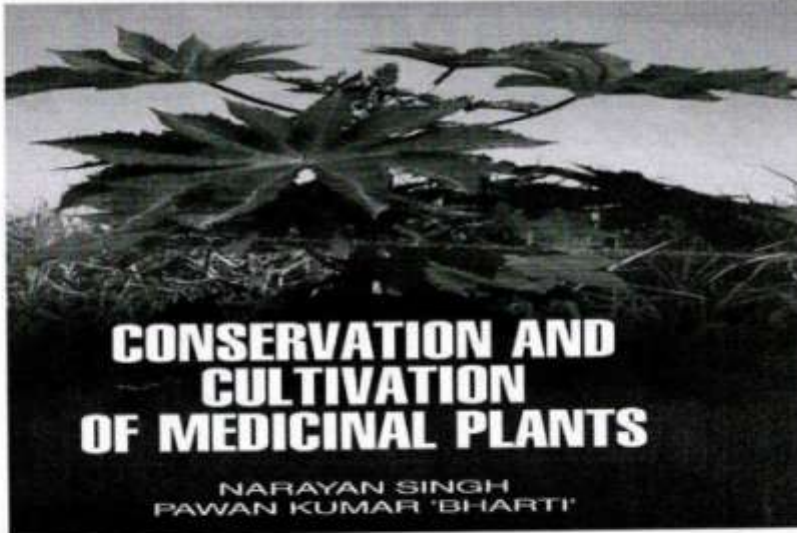
Shri Shivalingeshwar Shiksan Sanstha's Sankh

**Shri R. K. Patil Arts, Commerce and Science College,
Sankh.**

Certificate Course

In

Conservation and Cultivation of Medicinal Plants



**Department of Botany,
Shri RK Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli**




Head

**Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli**



Shri Shivalingeshwar Shikshan Sanstha's Sangli
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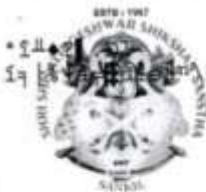
Department of Botany
Short Term Course (2022-2023)

Sr. No	Content
1.	Board of Studies Committee
2.	Syllabus
3.	Time Table
4.	Syllabus Distribution
5.	Notice
6.	Question paper
7.	List of students Enrolled




Head

Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh

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Department of Botany

Short Term Course (2022-2023)

BOARD OF STUDIES COMMITTEE

Sr. No	Expert committee members	Name of the Committee member	Affiliation
1.	Internal	Rathod S.S	Head, Department of Botany Shri R.K.P college Sankh
2.	Internal	Patil. S.B	Assistant professor Shri R.K.P college Sankh
3.	Internal	Koli .B.G	Assistant professor Shri R.K.P college Sankh


Head, Department of Botany
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Department of Botany

2022-2023

Autonomous (Self Financed) Short Term Certificate Course.

Conservation and Cultivation of Medicinal Plants

- | | |
|-----------------------|---|
| 1. Eligibility | : XII std. pass |
| 2. Duration of Course | : 3 Month |
| 3. No. of Students | : 20 |
| 4. Examination | : Theory (50 marks),
Practical (40 marks)
Excursion report (Polyhouse, Shednet)-10 marks.
Total 100 marks. |
| 6. Faculty | : Rathod S.S
: Patil. S.B
: Koli .B.G |
| 7. Coordinator | : Rathod S.S |
| 8. Director | : Principal, Shri R.K.P college Sangli. |




Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sangli
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Syllabus: Theory.

A) Introduction:

(2 Lecture)

Medicinal Plants and their role in health

B) Study of medicinal Plants

(12 Lectures)

Brief account of plant drugs and their chief constituents used in Indigenous medicines

- Rhizome- Zingiber officinalis, Glycerrikza glabra
- Root-Raulfia serpentina, Withania somnifera.
- Stem-Timmspora cordifolia
- Leaf Aloe vera, Adathoda zeylanica
- Floral bud- Sizygium aromaticum f. Fruit bud-Emblica officinalis

C) Cultivation of Medicinal plants

(6 Lectures)

- Introduction
- Methods and cultural practices of cultivation of Zingiber officinalis, Withania somnifera, Aloe vera, Emblica officinalis

D) Conservation of medicinal plants

(4 Lectures)

- Introduction
- Various methods of conservation- Polyhouse and shednets

(Total 24 Lectures)





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany

Short Term course- Conservation and Cultivation of Medicinal Plants

Syllabus:- Practical's.

2022-2023

List of Experiments-

1. Study of medicinal Plants wrt morphology of useful parts, active principle and uses of

- a. Zingiber officinalis,
- b. Glycerrikza glabra
- Raulfia serpentina
- d. Withania somnifera
- e. Tinospora cordifolia
- f. Aloe vera,
- g. Adathoda zeylanica
- h. Silygium aromaticum
- i. Emblica officinalis

2. Methods of cultivation of medicinal plants

- a. Zingiber officinalis,
- b. Glycerrikza gabra
- c. Raulfia serpentina,
- d. Withania somnifera
- e. Tinospora cordifolia
- f. Aloe vera,
- g. Adathoda zeylanic
- h. Silygium aromaticum
- i. Emblica officinalis

3. Techniques of conservation of medicinal plants

- a. Collection of plants
- b. Conservation in polyhouse
- c. Conservation in shednet
4. Visit to polyhouse and shednet




Head
Department of Botany
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com * Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in**

Department of Botany

2022-23

Autonomous (Self-Financed) Short term certificate course

Short Term course- Conservation and Cultivation of Medicinal Plants

Duration: 3Month

TIME TABLE

Theory and practical (per week)

Time	Day		
		Monday (Batch -A)	Thursday (Batch-B)
2.30-3.30pm	Lecture		
2.30-3.30pm	Practical	Tuesday (Batch -A)	Friday (Batch-B)


**Co-ordinator
Head**

Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Director

/s/ Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



Department of Botany
CERTIFICATE COURSE IN
CONSERVATION AND CULTIVATION OF MEDICINAL PLANTS
Attendance list 2022-2023

Sr No	Name of students	22/07/22	23/07/22	29/07/22	30/07/22	05/08/22	06/08/22	12/08/22
1.	GALAVE BIROBA SIDGONDA	B.S.G	B.S.G	B.S.G	B.S.G	B.S.G	B.S.G	B.S.G
2.	HALLI BHAGYASHREE SIDDANNA	B.S. Halli	B.S. Halli	AB	B.S. Halli	AB	B.S. Halli	B.S. Halli
3.	SANADI SALEEM LALASAB	SSC	SSC	SSC	SSC	SSC	SSC	SSC
4.	MALLAD SACHIN KALLAPPA	Stamali	Stamali	Stamali	Stamali	Stamali	Stamali	Stamali
5.	GALAVE PRASHANT KHANDU	P.K.G	P.K.G	P.K.G	P.K.G	P.K.G	P.K.G	P.K.G
6.	BIRADAR SHWETA GURURAJ	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar	Biradar
7.	HIRAGOND ANITA CHANNAPPA	Hiragond	Hiragond	Hiragond	Hiragond	Hiragond	Hiragond	Hiragond
8.	HAKKE MANISHA KERAPPA	Manish	Manish	Manish	Manish	Manish	Manish	Manish
9.	BIRADAR JAKKAVVA DHAREPPA	B.J.D	B.J.D	B.J.D	B.J.D	B.J.D	B.J.D	B.J.D
10.	KARAPÉ KAJAL SIDDHU	KSK	KSK	AB	KSK	KSK	AB	KSK
11.	RATHOD SHILPA NATU	SR	SR	SR	SR	SR	SR	SR
12.	GAIKWAD HEMPUSHPA SIDDHA	GH	GH	GH	GH	GH	GH	GH
13.	MORADI VIRESH SURESH	Moradi	Moradi	Moradi	Moradi	Moradi	Moradi	Moradi
14.	VAGHOLI ANIL SAHEBGODA	ASV	ASV	ASV	ASV	ASV	ASV	ASV
15.	KARAJANAGI BASAVPOOJA MAHADEV	B.M.K	B.M.K	B.M.K	B.M.K	B.M.K	B.M.K	B.M.K
16.	WAGOLI ASHOK GURUPAD	AGW	AGW	AGW	AGW	AGW	AGW	AGW
17.	GEJJI ANAND MURIGEPPA	AM Geji	AM Geji	AM Geji	AM Geji	AM Geji	AM Geji	AM Geji



18.	PAWAR LAXMIKANT BHAIKAVNATH	LBP	LBP	LBP	LBP	LBP	LBP	LBP
19.	BHANDARKAVATE VITTHAL BHIMRAY	VBB	VBB	VBB	VBB	VBB	VBB	VBB
20.	MUCHANDI SHASHIKALA SHRISHAIL	SSM	SSM	SSM	SSM	SSM	SSM	SSM




Department of Botany
CERTIFICATE COURSE IN
CONSERVATION AND CULTIVATION OF MEDICINAL PLANTS
Attendance list 2022-2023

Sr No	Name of students	13/08/22	20/08/22	26/08/22	01/10/22	7/10/22	08/10/22	09/10/22
1.	GALAVE BIROBA SIDGONDA	B.S.A	B.S.A	B.S.A	B.S.A	B.S.A	B.S.A	B.S.A
2.	HALLI BHAGYASHREE SIDDANNA	B.S. Halli	B.S. Halli	B.S. Halli	B.S. Halli	B.S. Halli	B.S. Halli	B.S. Halli
3.	SANADI SALEEM LALASAB	SSB	SSB	SSB	SSB	SSB	SSB	SSB
4.	MALLAD SACHIN KALLAPPA	Stenali	Stenali	Stenali	Stenali	Stenali	Stenali	Stenali
5.	GALAVE PRASHANT KHANDU	P.K.A	P.K.A	P.K.A	P.K.A	P.K.A	P.K.A	P.K.A
6.	BIRADAR SHWETA GURURAJ	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta
7.	HIRAGOND ANITA CHANNAPPA	Channappa	Channappa	Channappa	Channappa	Channappa	Channappa	Channappa
8.	HAKKE MANISHA KERAPPA	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha
9.	BIRADAR JAKKAVVA DHAREPPA	B.J.D	B.J.D	B.J.D	B.J.D	B.J.D	B.J.D	B.J.D
10.	KARAPE KAJAL SIDDHU	Ksk	Ksk	Ab	Ksk	Ksk	Ksk	Ksk
11.	RATHOD SHILPA NATU	SR	SR	SR	SR	SR	SR	SR
12.	GAIKWAD HEMPUSHPA SIDDHA	GSD	GSD	GSD	GSD	GSD	GSD	GSD
13.	MORADI VIRESH SURESH	Viresh	Viresh	Viresh	Viresh	Viresh	Viresh	Viresh
14.	VAGHOLI ANIL SAHEBGOUDA	ASV	ASV	ASV	ASV	ASV	ASV	ASV
15.	KARAJANAGI BASAVPOOJA MAHADEV	BMK	BMK	BMK	BMK	BMK	BMK	BMK
16.	WAGOLI ASHOK GURUPAD	AGW	AGW	AGW	AGW	AGW	AGW	AGW
17.	GEJJI ANAND MURIGEPPA	AM	AM	AM	AM	AM	AM	AM



18.	PAWAR LAXMIKANT BHAIRAVNATH	LBP	LBP	LBP	LBP	LBP	LBP	LBP
19.	BHANDARKAVATE VITTHAL BHIMRAY	VBB	VBB	VBB	VBB	VBB	VBB	VBB
20.	MUCHANDI SHASHIKALA SHRISHAIL	SSD	SSD	SSD	SSD	SSD	SSD	SSD


Course CO-Ordinator
Head
 Department of Botany
 Shri R. K. Patil Arts, Commerce
 & Science College, Sankh
 Tal. Jath, Dist. Sangli


HOD
 Department of Botany
 Shri R. K. Patil Arts, Commerce
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Department of Botany

2022-2023

Short Term course- Conservation and Cultivation of Medicinal Plants

NOTICE

Student of short term course Conservation and Cultivation of Medicinal
Plants are hereby informed that their examination (Theory and Practical) will be
conducted on 22 & 23, March, 2023.

Coordinator

Head Department of Botany

Department of Botany

Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Director/Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



Department of Botany

CERTIFICATE COURSE IN CONSERVATION & CULTIVATION OF MEDICINAL PLANTS

Examination March 2023

Total Marks 50.

Date-22.03.2023 Time-11.00 to 1.00 pm

Instructions:

- 1) All questions are Compulsory
- 2) Draw neat and labeled diagrams wherever necessary
- 3) Figures to the right indicate full marks.

Q.1. Give general account of plant drugs and chief constituents of *Tinospora cordifolia* used in indigenous and allopathic system. 20

OR

What are plant drugs ? give an account of sources of plants used for making medicine?

Q 2. Write short notes on any three.

1. Chemical constituents of *Witania somnifera*...
2. Clove as medicinal plant
3. Plant drugs obtained from leaves
4. *Embilca officinalis*
5. *Zingiber officinalis*



SHRI SHIVAJINGESHWAR SHIKSHAN SANSTHA'S SANKH
SHRI R.K. PATIL ARTS, COMMERCE AND SCIENCE COLLEGE SANKH

(TAL. - JATH DIST. - SANGLI)
(Affiliated to Shivaji University, Kolhapur)
GRADUATE DEPARTMENT OF BOTANY



CERTIFICATE

This is to Certify that Mr. /Ms. *Mrida Vash. Surekha* successfully completed the
"CONSERVATION AND CULTIVATION OF MEDICINAL PLANTS" at Graduate Department of Botany the academic
year 2022 - 2023

[Signature]
Prof. Rajhod S.S.
Head
Coordinator
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

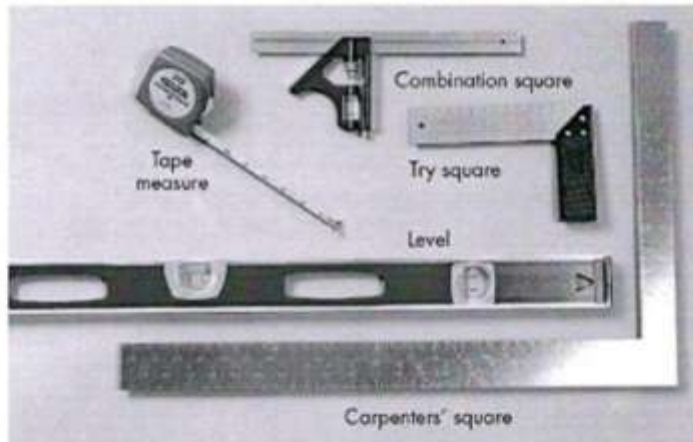
[Signature]
Dr. Dalwai S.P.
MC Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

॥ Dhairyam Sarvatra Sadhanam ॥
Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh.

**Certificate Course
in**

Introduction of Household Instruments and their Repairing



Department of Physics
Shri R. K. Patil Arts,
Commerce and Science College,
Sankh. Tal- Jath, Dist-Sangli



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2	Permission letter
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7	Registration
8	List of enrolled students
9	Time table
10	Question paper
11	Result
12	Certificate





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.CI@unishivaji.ac.in

Ref.No.

Date :02/12/2022

To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course in Introduction of Household Instruments and their Repairing.

Respected sir,

With the reference to above subject, our Physics department is going to conduct certificate course in Certificate Course of Introduction of Household Instruments and their Repairing for B. Sc Students in this year academic year (2022-23). So, I request you to give us permission to conduct above said course.

Thanking you,

*Granted
Principal
02/12/22*



Sanyal
Yours Faithfully

Head
Department of Physics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Introduction of Household Instruments and their Repairing

Aim- This course provides a foundation for an independent business and getting a physics-based job. In this course, the students will study the fundamental ideas and principles underlying the operation of household instruments as well as how to repair them. On a breadboard, students will learn how to create circuits using the soldering process. Students will acquire knowledge on how to repair the household instruments used in daily life such as LCD & LED TVs, voltage stabilizers, amplifiers, iron, fan, grinding mixers, etc.

Objective

- To raise awareness of safety precautions while using electronic and electrical equipments.
- Repairing electric/electronic instruments will create self-employment among the youth.
- To meet the demand for skilled manpower for society.

Learning Outcomes

- After completion of this course, you should be able to accomplish these outcomes within the electronic industry standards.
- You shall be able to accomplish identify electronic components, their principle, and working function in the electronic circuits.
- Getting a lot of knowledge of the operating mechanism of electronic circuits and instruments.
- Skills for fault analysis and diagnosis of electronic instruments repair and replacement of faulty parts.
- Getting knowledge of entrepreneurship activities.
- You should be able to examine the schematic layout of the wiring diagram and product.
- You should be able to assist in the maintenance of audio and radio equipment in the laboratory field.
- You should be able to repair your own household electronic equipment on your own like TV, Radio, Refrigerator, fan, mixers, etc.



Evaluation System

The entire student will be continuously evaluated by,

• Attendance	(10 marks)
• Assignments	(10 marks)
• Theory examination	(80 marks)
• Practical examination	(50 marks)
• Project	(50 marks)

Total	(200 marks)
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Nature of question paper for Theory examination (Paper I and Paper II)–

Multiple choice	10 Marks
Long answer type (any two) out of three	20 Marks
Write short notes (any four) out of six	20 Marks

Total Marks, Paper I 50 Marks

Paper II 50 Marks

Practical

Evaluation of the performance of the students in practical shall be on the basis of examination

Practical	50 Marks
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Project

- One project will be assigning to students individually and their dissertation to be submit at end of the course.
- Project work consists of 40 marks for project completion and 10 marks for viva-voce.

Grades- A grade= above 75, B grade = above 60, C grade = above 50

Certification- A certificate will be issued after successful completion of the course.



**Shri R. K. Patil Arts, Commerce and
Science College, Sankh**

Certificate Course

"Introduction of Household Instruments and their Repairing"

Paper- I Introduction of Household Electric Instrument

[Total periods: 20 hours]

Unit-1: Basic Electricity

(10 Hours)

Electrical safety and Tools, Introduction to Electricity, Study of electronic components, Electrostatics, Magnetism and Electromagnetism, A C Circuit, Electrical Measurements.

Unit: 2 Basic Electronics

(10 Hours)

Semiconductors, Special Semiconductor, Power supplies, Amplifiers, Oscillators, special semiconductor devices.



**Shri R. K. Patil Arts, Commerce and
Science College, Sankh**
Certificate Course
"Introduction of Household Instruments and their Repairing"
Paper- II Repairing of Household Instruments
[Total periods: 20 Hours]

Unit-1: Cathode Ray Tube (CRT)

(5 hours)

Cathode Ray Tube (CRT): Introduction, Principle, Construction, Working, Block diagram. Use of CRT in Television.

Unit-2: LCD and LED

(5 hours)

LCD and LED: Types of LED and LCD, principle, construction, working, its applications.

Unit-3: Voltage stabilizer

(5 hours)

Zener diode as voltage regulator: Principle, Construction, Working, and its uses in Household Instrument.

Unit-4: Integrated circuit (IC)

(5 hours)

Integrated circuit, Types of integrated circuit, and its applications.



**Shri R. K. Patil Arts, Commerce and
Science College, Sankh**
Certificate Course
"Introduction of Household Instruments and their Repairing"

Paper- III Practical's
[Total periods: 40 Hours]

List of Practical's

1. Use of multimeter
2. LCR Circuits
3. Verification of Ohm's Law
4. Verification of Kirchhoff's current Law and voltage Law
5. Identification and testing of electronic components
6. Find Iron fault and repairing
7. Bridge rectifier for AC to DC converter
8. Zener diode as voltage regulator
9. Thevenin's Theorem
10. Norton's Theorem



List Text/Reference Books

1. Applied Electronics by- R.S.Sedha
2. Basic Electronics by- Bernard Grob
3. A text book of Applied Electronics by- R.S.Sedha (S.Chand & Company)
4. Basic Electronics and Linear circuits by- N.N.Bharagava, D.C.Kulshreshtha and S.C.Gupta (TMH)
5. Practical Physics by- Gupta and Kumar (Pragati Prakashan, Meerat)
6. Advance level Practical Physics by -J M Nelcom and J M Ogloom (EIBS)
7. A text book of Practical Physics by- Shrinivasan and Balsubramanyam

Co-ordinator	HOD, Physics	I/C Principal
Mr. S.A. Sayyed	Dr. S.P. Dalawai	Dr. S.P. Dalawai





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Physics

Introduction of Household Instruments and their Repairing

Meeting Notice

The meeting of the members of BOS in certificate course in **Introduction of Household Instruments and their Repairing** is conveyed on 09 December 2022 for the preparation of syllabus.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Mr. S.A. Sayyed	Co-rodinator	
3	Mr. R.B. Biradar	Member	
4	Mr. A.S. Haladaki	Member	
5	Mr. G.S. Mali	Member	

HOD

Head
Department of Physics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

Head
Principal
Department of Physics
Shri R. K. Patil Arts, Commerce Science College,
& Sankh, Tal. Jath, Dist. Sangli. 416 412
Tal. Jath, Dist. Sangli



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Department of Physics

Introduction of Household Instruments and their Repairing

Academic Year -2022-23

Minutes of Meeting

The meeting of the members of BOS in certificate course in Introduction of Household Instruments and their Repairing is held on 12th December 2022 for the preparation of Course syllabus. The following members of present and prepared the syllabus of the above course and submitted to IQAC, Shri R K Patil ACS College Sankh.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Mr. S.A. Sayyed	Co-rodinator	
3	Mr. R.A.Mendigeri	Member	
4	Mr. A.S. Haladaki	Member	
5	Mr. G.S. Mali	Member	

HOD

Head

Department of Physics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Date:- 13/12/2023

Notice

All the students of B.Sc-III are here by informed that, Department of Physics going to organized by certificate course in Introduction of Household Instruments and their Repairing has been scheduled from **15/12/2022 to 15/02/2023** Kindly, remain present at prescribed time in lecture hall.

Saryedss.

Course Co-ordinator



Saryedss.

HOD

Head
Department of Physics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Department of Physics

“Introduction of Household Instruments and their Repairing”

Academic Year -2022-23

Registration

Sr. No	Name of Student	PRN No
1	SONAVANE RAMESH SHANTARAM	2020083452
2	BIRADAR VITTHA RAMAGOND	2018075162
3	BIRADAR AJIT TUKARAM	2020051934
4	MANE PRATIKSHA PRABHAKAR	2020049725
5	VHANAMANE ROHIT KUMAR	2020049723
6	NADAF SHAFIK HAJISAAB	2020041304
7	BIRADAR SUPRIYA CHIDANAND	2020040774
8	TATTITELI MAYOORI REVANASIDDAPPA	2020040720
9	NILE MALAKARI KASHINATH	2020040728
10	BIRAJADAR DUNDAPPA SANGAPPA	2020040686
11	RATHOD SHRIKANT FULSING	2020015624
12	KUMBAR DUNDAPPA RAMESH	2020022485
13	MALI VITTHAL ISHWAR	2020022598
14	MISAL MOHINI MAHADEV	2020022579
15	SHILEEN VIDYA SANGAPPA	2020022548
16	CHOUGULE ANAND APPASAB	2020022560
17	BIRADAR PAVITRA BASAGONDA	2020022619
18	KOLI SMEETA MAHANTESH	2020022562
19	KODALKAR SUBHASH SAMBHAJI	2020020785
20	SABALE SURAJ HARIDAS	2020022646
21	DHEPANE SANTOSH SHANKAR	2020020849
22	MAGADUM SIDDHARUDH MALLAPPA	2020022545
23	KATAKAR AUDUMBAR EKNATH	2020022479
24	KULKARNI GAURI SUNIL	2020022614



25	BHANDARE SOHEL RAJU	2020022554
26	KARE KAVITA SUBHASH	2020022496
27	KARAJANAGI AKASH SANGAPPA	2020022482
28	BIRADAR SANKET CHANDRASHEKHAR	2020022541
29	SOUDATTI RAKESH RAJASHEKHAR	2020022626
30	TERADAL CHETAN MURAGEPPA	2020022557
31	SAYAR PANKAJ PANDHARI	2020022625
32	KAROLI GURUNINGAPPA SHIVAPPA	2020022543
33	TELI SADASHIV SHRISHAIL	2020022637
34	JAGTAP ABHIJEET JAGANNATH	2020022486
35	SHIRASHAD SANTOSH RAMESH	2020022501
36	WAGHE GORAKHANATH APPASO	2020020786
37	PATTANASHETTI SANJIV IRANNA	2020022638
38	KADAM LAXMI BASAGONDA	2020022478
39	PATEL ARABAJ SHABBIR	2020022587
40	MANE ARAVIND SIDAGONDA	2020022494
41	JAGTAP ROHIT KONDIRAM	2020022491
42	CHIKODI BASAVANT MURLIDHAR	2020022576
43	PANDHARE PIRAPPA SHANKAR	2020022500
44	PUJARI GURABASU ANNAPPA	2020022612
45	MUNJE PRAMOD APPASAB	2020022480
46	HIRAGOND NIKITA LAXMAN	2020031485
47	KUMBAR RAGHAVENDRA RAJENDRA	2019048438
48	BARAKADE RANI MARUTI	2019043025
49	JADHAV NITIN SANJAY	2020061913

Sayyedss.
Course Co- ordinator



Sayyedss.
HOD

Head
Department of Physics
S. R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli



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Department of Physics

“Introduction of Household Instruments and their Repairing”

Academic Year -2022-23

Time Table

Course Commencement: 15/12/2022 to 15/02/2023

Class	Time	Thursday (15/12/2022 to 15/02/2023)	Wednesday (15/12/2022 to 15/02/2023)
Theory	1:30 PM to 2:30PM	SAS	DSP
Practical	2:30PM to 4:30PM	DSP	SAS

Satyedss.
Course Co- ordinator



Satyedss.
HOD
Head
Department of Physics
Shri R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V/100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



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Department of Physics

“Introduction of Household Instruments and their Repairing”

Academic Year -2022-23

Attendance Sheet

Sr. No	Name of Student	1	2	3	4	5	6	7	8	9	10
1	SONAVANE R.S.	Qel	Qel	Qel	Qel	Ab	Qel	Qel	Qel	Qel	Qel
2	BIRADAR V. R.	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel
3	BIRADAR A.T.	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT	BAT
4	MANE P. P.	MPP	MPP	MPP	MPP	MPP	MPP	MPP	MPP	MPP	MPP
5	VHANAMANE RK.	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
6	NADAF S. H.	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel
7	BIRADAR S.C.	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Ab
8	TATTITELI M. R.	TMR	TMR	TMR	Ab	TMR	TMR	TMR	TMR	TMR	TMR
9	NILE M. K.	NK	NK	NK	NK	NK	NK	NK	NK	NK	NK
10	BIRAJADAR D.S.	BDS	BDS	BDS	BDS	BDS	BDS	BDS	BDS	BDS	BDS
11	RATHOD S.F.	RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF	RSF
12	KUMBAR D. R.	KDR	KDR	KDR	KDR	KDR	KDR	KDR	KDR	KDR	KDR
13	MALI V. L.	mal	mal	mal	mal	mal	mal	mal	mal	mal	mal
14	MISAL M. M.	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM
15	SHILEEN V. S.	SVS	SVS	SVS	SVS	SVS	SVS	SVS	SVS	SVS	SVS
16	CHOUGULE A. A.	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel
17	BIRADAR P.B.	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel	Qel



18	KOLI S.M.	SKall	SKall	SKall	SKall	SKall	SKall	SKall	SKall	SKall	SKall	SKall	SKall
19	KODALKAR S. S.	PSS	PSS	PSS	PSS	PSS	PSS	PSS	PSS	PSS	PSS	PSS	PSS
20	SABALE S.H.	SSH	SSH	SSH	SSH	SSH	SSH	SSH	SSH	SSH	SSH	SSH	SSH
21	DHEPANE S.S.	DSS	DSS	DSS	DSS	DSS	DSS	DSS	DSS	DSS	DSS	DSS	DSS
22	MAGADUM S.M.	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM
23	KATAKAR A. E.	KAE	KAE	KAE	KAE	KAE	KAE	KAE	KAE	KAE	KAE	KAE	KAE
24	KULKARNI G.S.	XKS	XKS	XKS	XKS	XKS	XKS	XKS	XKS	XKS	XKS	XKS	XKS
25	BHANDARE S. R.	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR
26	KARE K. S.	XKS	XKS	Ab	XKS	XKS	XKS	XKS	XKS	XKS	XKS	XKS	Ab
27	KARAJANAGI A.S.	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS	KAS
28	BIRADAR S. C.	BSC	BSC	BSC	BSC	BSC	BSC	BSC	BSC	BSC	BSC	BSC	Ab
29	SOUDATTI R.R.	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR
30	TERADAL C.M.	TCM	TCM	TCM	TCM	TCM	Ab	TCM	TCM	TCM	TCM	TCM	TCM
31	SAYAR P.P.	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD	SPD
32	KAROLI G. S.	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS
33	TELI S.S.	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS
34	JAGTAP A.J.	JAT	JAT	JAT	JAT	JAT	JAT	JAT	JAT	JAT	JAT	JAT	JAT
35	SHIRASHAD S.R.	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR	SSR
36	WAGHE G.A.	WGA	WGA	WGA	WGA	WGA	WGA	WGA	WGA	WGA	WGA	WGA	Ab
37	PATTANASHETTI SI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI	PSI
38	KADAM L.B.	KLB	KLB	KLB	KLB	KLB	KLB	KLB	KLB	KLB	KLB	KLB	KLB
39	PATEL A.S.	PAL	PAL	PAL	PAL	PAL	PAL	PAL	PAL	PAL	PAL	PAL	PAL
40	MANE A.S.	MAS	MAS	MAS	MAS	MAS	MAS	MAS	MAS	MAS	MAS	MAS	MAS
41	JAGTAP R.K.	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK	JRK
42	CHIKODI B. M.	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM	CBM
43	PANDHARE P.S.	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS
44	PUJARI G.A.	PAU	PAU	PAU	PAU	PAU	PAU	PAU	PAU	PAU	PAU	PAU	PAU



45	MUNJE P.A.	MUNJE	MUNJE	MUNJE	MUNJE	Ab	MUNJE	MUNJE	MUNJE	MUNJE	Ab
46	HIRAGOND N.L.	HNL	HNL	HNL	HNL	HNL	HNL	HNL	HNL	HNL	HNL
47	KUMBAR R. R.	KRR	KRR	KRR	KRR	KRR	Ab	KRR	KRR	KRR	KRR
48	BARAKADE R.M.	BRM	BRM	BRM	BRM	BRM	BRM	BRM	BRM	Ab	BRM
49	JADHAV N. S.	JNS	JNS	JNS	JNS	JNS	JNS	JNS	JNS	JNS	JNS

Sanyal
Course Co-ordinator



Sanyal
HOD

Head
Department of Physics
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli



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2	BIRADAR V. R.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	BIRADAR A.T.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	MANE P. P.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
5	VHANAMANE RK.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6	NADAF S. H.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
7	BIRADAR S.C.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8	TATTITELI M. R.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9	NILE M. K.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
10	BIRAJADAR D.S.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
11	RATHOD S.F.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
12	KUMBAR D. R.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
13	MALI V. I.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
14	MISAL M. M.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
15	SHILEEN V. S.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
16	CHOUGULE A. A.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
17	BIRADAR P.B.	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB



18	KOLI S.M.	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli
19	KODALKAR S. S.	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli	SKoli
20	SABALE S.H.	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS
21	DHEPANE S.S.	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS
22	MAGADUM S.M.	S.M.M	S.M.M	S.M.M	S.M.M	S.M.M	S.M.M	S.M.M	S.M.M	S.M.M	S.M.M	S.M.M
23	KATAKAR A. E.	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK
24	KULKARNI G.S.	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K
25	BHANDARE S. R.	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR	BSR
26	KARE K. S.	K.K.S	K.K.S	K.K.S	K.K.S	K.K.S	K.K.S	K.K.S	K.K.S	K.K.S	K.K.S	K.K.S
27	KARAJANAGI A.S.	AKS	AKS	AKS	AKS	AKS	AKS	AKS	AKS	AKS	AKS	AKS
28	BIRADAR S. C.	SBR	SBR	SBR	SBR	SBR	SBR	SBR	SBR	SBR	SBR	SBR
29	SOUDATTI R.R.	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR	SRR
30	TERADAL C.M.	CMT	CMT	CMT	CMT	CMT	CMT	CMT	CMT	CMT	CMT	CMT
31	SAYAR P.P.	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP	SP
32	KAROLI G. S.	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K
33	TELI S.S.	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS	TELS
34	JAGTAP A.J.	A.J.T	A.J.T	A.J.T	A.J.T	A.J.T	A.J.T	A.J.T	A.J.T	A.J.T	A.J.T	A.J.T
35	SHIRASHAD S.R.	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R	S.S.R
36	WAGHE G.A.	GA	GA	GA	GA	GA	GA	GA	GA	GA	GA	GA
37	PATTANASHETTI SI	SIP	SIP	SIP	SIP	SIP	SIP	SIP	SIP	SIP	SIP	SIP
38	KADAM L.B.	KL.B	KL.B	KL.B	KL.B	KL.B	KL.B	KL.B	KL.B	KL.B	KL.B	KL.B
39	PATEL A.S.	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
40	MANE A.S.	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA
41	JAGTAP R.K.	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T
42	CHIKODI B. M.	BM	BM	BM	BM	BM	BM	BM	BM	BM	BM	BM
43	PANDHARE P.S.	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS	PPS
44	PUJARI G.A.	GA	GA	GA	GA	GA	GA	GA	GA	GA	GA	GA



45	MUNJE P.A.	P. Munje	AB	P. Munje	P. Munje	P. Munje	P. Munje	P. Munje	P. Munje	P. Munje
46	HIRAGOND N.L.	N.L.H	N.L.H	N.L.H	AB	N.L.H	N.L.H	N.L.H	AB	N.L.H
47	KUMBAR R. R.	R.R.K	R.R.K	AB	R.R.K	R.R.K	R.R.K	R.R.K	AB	R.R.K
48	BARAKADE R.M.	B.R.M	B.R.M	B.R.M	AB	B.R.M	B.R.M	B.R.M	AB	B.R.M
49	JADHAV N. S.	J.N.S	J.N.S	AB	J.N.S	J.N.S	J.N.S	J.N.S	AB	J.N.S



Saryed ss.

Course Co- ordinator

Saryed ss.

HOD

Head
Department of Physics
Shri R. K. Peti Art, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

SHIVALINGESHWAR SHIKSHAN SANSTHA
SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE COLLEGE
SANKH

TAL - JATH DIST- SANGLI.
(Affiliated to Shivaji University, Kolhapur)

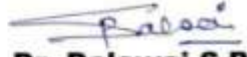
GRADUATE DEPARTMENT OF PHYSICS



CERTIFICATE

This is to Certify that **Mr. /Ms. Gayatri Sunil Kulkarni** has successfully completed the Certificate Course Of "Introduction Of Household Instruments And Their Repairing" graduate Department of Physics in the academic year 2022- 23


Co-ordinator


Dr. Dalawai S.P
I/C Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

INDEX
Advertise Writing Skill
Year 2022-2023

Sr.no.	Content
1	Permission Letter
2	Invitation Letter
3	Notice
4	Meeting Notice
5	Syllabus
6	Objectives and Learning Objectives
7	Time table
8	List of participants
9	Attendance
10	Question Paper
11	Certificate



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U.G.Department of Marathi

(Self-Financed certificate course)

Short Term Course - 2022-23

Advertise Writing Skill

अनुवाद लेखन कौशल्य

BOS and Experts

1. Name of the Course : Interview Writing & Personality Development

2. BOS Members Prof. Sonavase Z.S

3. Guest & Expert Prof. Kharat. P. K.



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U.G.Department of Marathi

(Self-Financed certificate course)

Short Term Course-2022-23

Advertise Writing Skill

अनुवाद लेखन कौशल्य

Course Structure

Eligibility : 12th Pass
Duratio : 1 Months
Examination Pattern : Theory : 50 Marks

.....
Total : 50 Marks

Faculty : Prof. Sonavane L.S.
: Prof.Kharat P.K.

Co-ordinator : Head,U.G. Department of Marathi
Shri. R.K.Patil Arts, Commerce and Science College, Sankh.

|| Dhairyam Sarvatra Sadhanam ||



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U.G. Department of Marathi

(Self-Financed certificate course)

Short Term Course - 2022-23

Advertise Writing Skill

अनुवाद लेखन कौशल्य

NOTICE

दि. 06/09/2022

बी. ए. भाग मराठी विभागातील सर्व विद्यार्थ्यांना कळविण्यात येते की, विभागातर्गत शॉर्ट टर्म कोर्स सुरु असून या कोर्सचे तास दि. 12/09/2022 पासून सुरु होत आहेत. याचे वेळापत्रक मराठी विभागात लावण्यात आले आहे. याची सर्व विद्यार्थ्यांनी नोंद घ्यावी.



Head

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|| Dhairyam Sarvatra Sadhanam ||



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अनुवाद लेखन कौशल्य

EXAM NOTICE

दि. 17/11/2022

बी. ए. मराठी विभागातील सर्व विद्यार्थ्यांना कळविण्यात येते की, विभागातर्गत शॉर्ट टर्म कोर्सची परीक्षा दि.21/11/2022 पासून सुरु होत आहे. परीक्षेचे वेळापत्रक मराठी विभागात लावण्यात आले आहे. याची सर्व विद्यार्थ्यांनी नोंद घ्यावी.



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अनुवाद लेखन कौशल्य

Syllabus

Unit No.	Unit Name	Lecture Allotted
1	अनुवाद लेखन कौशल्य व स्वरूप	8 Lectures
2	अनुवाद माध्यमे व स्वरूप	8 Lectures
3	अनुवाद लेखनाचे घटक व प्रकार	8 Lectures
4	अनुवाद लेखनाचे महत्व	8 Lectures
Total Lectures		32 Lectures

संदर्भ ग्रंथ :

- 1) संदीप सांगळे : व्यावहारिक उपयोजित मराठी आणि प्रसार माध्यमे, डायमंड पब्लिकेशन्स, पुणे
- 2) त.रा. नासिराबादकर: व्यावहारिक मराठी, फडके प्रकाशन, आठवी आवृत्ती
- 3) संपादक डी. कल्याण काळे, डी. अंजली सोमण भाषांतर मीमांसा, प्रतिमा प्रकाशन, पुणे
- 4) डॉ. उमा कुलकर्णी भाषांतर मीमांसा, कल्लड मराठी अनुवाद: एक अनुभव
- 5) यशोदा भागवत जाहिरातींचा जग, मीज प्रकाशन दुसरी आवृत्ती
- 6) आनंद पाटील: सृजनात्मक लेखन, पदयागंधा प्रकाशन, पुणे
- 7) संजय लांडगे उपयोजित मराठी, दिलीपराज प्रकाशन, पुणे
- 8) केशव जुपे: माध्यमांची भाषा, लेखन कौशल्य, चिन्मय प्रकाशन, औरंगाबाद
- 9) डॉ. स्नेहल तावरे व्यावहारिक मराठी, स्नेहवर्धन प्रकाशन, पुणे
- 10) मराठी भाषा उपयोजन आणि सर्जन दूर शिक्षण केंद्र, शिवाजी विद्यापीठ, कोल्हापूर
- 11) मो.रा. बाळंबे सुगम मराठी व्याकरण लेखन, मराठी शुद्धलेखन प्रदीप, फडके प्रकाशन, कोल्हापूर





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

U.G. Department of Marathi

(Self-Financed certificate course)

Short Term Course - 2022-23

Advertise Writing Skill

अनुवाद लेखन कौशल्य

Time – Table

Sr.No	Time	Monday	Saturday
1	01.00 to 02.00	Sonayane L.S.	Sonayane L.S.
2	01.00 to 02.00	—	—



Head
Department of Marathi
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Short Term Course - 2022-23

Advertise Writing Skill

अनुवाद लेखन कौशल्य

SR.NO	STUDENT NAME
1	Barkade Somaling Ramu
2	!Jadhav Sakshi Sambhaji
3	!Thorat Puja Mallikarjun
4	Giddanavar Kiran Vitthal
5	!Hipparkar Geeta Nanaso
6	Javir Pundalik Shamarao
7	Joshi Bhagyashri Vyankatesh
8	!Narale Pooja Daryappa
9	Rangatte Amit Adavyappa
10	Dhane Raju Siddu
11	!Nagane Archana Appaso
12	Mali Pranjali Basappa
13	Hiragond Suyash Subhash
14	Karve Sandip Habalyappa
15	Khot Aoudumbar Vithal
16	Waghamare Vasudha Jalindar
17	!Khandekar Akshata Prakash
18	Mali Ramesh Gurappa
19	Tengale Kedaraba Jayagonda
20	Chavan Shrinath Rajaram
21	Kamble Devaraj Shrimant
22	Teli Basveshwar Somaninga
23	!Yadav Puja Ganapati

24	!Nimbyal Dnyaneshwari Babu
25	Nimbyal Akash Prakash
26	!Magade Puja Prabhakar
27	Mali Pramod Birappa
28	!Jamadade Rupali Uttam
29	!Shinde Amita Suresh
30	!Lavate Kirti Dasharath



|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Tal.Jath, Dist.Sangli. 416 412. College Code : 616
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U.G.Department of Marathi

(Self-Financed certificate course)
Short Term Course - 2022-23
Advertise Writing Skill

अनुवाद लेखन कौशल्य

EXAM TIME - TABLE

Date	Time	Exam
21/11/2022	02.00 to 04.00	Theory



(Signature)

Head
Department of Marathi
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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U.G.Department of Marathi

(Self-Financed certificate course)

Short Term Course- 2022-23

Advertise Writing Skill

अनुवाद लेखन कौशल्य

Result - 2022-23

SR.NO	STUDENT NAME	Theory	Result
1	Barkade Somaling Ramu	38	Pass
2	!Jadhav Sakshi Sambhaji	42	Pass
3	!Thorat Puja Mallikarjun	46	Pass
4	Giddanavar Kiran Vitthal	35	Pass
5	!Hipparkar Geeta Nanaso	32	Pass
6	Javir Pundalik Shamarao	32	Pass
7	Joshi Bhagyashri Vyankatesh	38	Pass
8	!Narale Pooja Daryappa	30	Pass
9	Rangatte Amit Adavyappa	34	Pass
10	Dhane Raju Siddu	31	Pass
11	!Nagane Archana Appaso	34	Pass
12	Mali Pranjali Basappa	32	Pass
13	Hiragond Suyash Subhash	45	Pass
14	Karve Sandip Habalyappa	31	Pass
15	Khot Aoudumbar Vithal	34	Pass
16	Waghamare Vasudha Jalindar	38	Pass
17	!Khandekar Akshata Prakash	32	Pass
18	Mali Ramesh Gurappa	31	Pass
19	Tengale Kedaraba Jayagonda	38	Pass

20	Chavan Shrinath Rajaram	34	Pass
21	Kamble Devaraj Shrimant	31	Pass
22	Teli Basveshwar Somaninga	30	Pass
23	!Yadav Puja Ganapati	30	Pass
24	!Nimbyal Dnyaneshwari Babu	38	Pass
25	Nimbyal Akash Prakash	30	Pass
26	!Magade Puja Prabhakar	30	Pass
27	Mali Pramod Birappa	30	Pass
28	!Jamadade Rupali Uttam	39	Pass
29	!Shinde Amita Suresh	31	Pass
30	!Lavate Kirti Dasharath	30	Pass





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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(Self-Financed certificate course)

Short Term Course-2022-23

Advertise Writing Skill

अनुवाद लेखन कौशल्य

अहवाल

मराठी विभागाने २०२२-२३ या वर्षासाठी अनुवाद लेखन कौशल्य या विषयात अँड ऑन कोर्स आयोजित केला होता. या अभ्यासक्रमासाठी या वर्षी ३० विद्यार्थ्यांना प्रवेश देण्यात आला. अनुवाद लेखन कौशल्य या विषयाचे ज्ञान वाढवण्याच्या उद्देशाने हा अभ्यासक्रम आयोजित करण्यात आला होता. अनुवाद लेखन कौशल्य या विषयाचे महत्त्व विद्यार्थ्यांना मिळाले. हा अभ्यासक्रम यशस्वीरित्या पार पडला ज्यामध्ये वेळापत्रकानुसार ९०% व्याख्यान झाली. या परीक्षेत 100% विद्यार्थी उपस्थित होते. यशस्वी विद्यार्थ्यांना प्रमाणपत्र वाटप करण्यात आले.



Head
Department of Marathi
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli

SR.NO	STUDENT NAME	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	Barkade Somaning Ramu	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2	Uadhu Saksiti Sambhaji	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
3	Thorat Puja Mallikarjun	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
4	Giddanwar Kiran Vitthal	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5	Hipparkar Geeta Naraso	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6	Javir Pundalik Shannaro	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
7	Joshi Bhagyashri Vyankatesh	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
8	INarale Pooja Daryappa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
9	Rangate Amit Adavyappa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
10	Dhane Raju Siddu	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
11	INagane Archana Appaso	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
12	Mali Pranjali Basappa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
13	Hiragond Suyash Subhash	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
14	Karve Sandip Hahalyappa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
15	Khot Akundumbar Vitthal	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	Waghmare Vasudha Jalindar	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	IKhandekar Akshata Prakash	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	Mali Ramesh Gurappa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	Tengale Kedaraba Jayagonda	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	Chavan Shrinath Rajaram	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21	Kamble Devraj Shrinant	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
22	Teli Basveshwar Somnilinga	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
23	IVadav Puja Ganapati	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
24	INimhyal Dnyaneshwari Babu	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
25	Nimhyal Akash Prakash	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
26	IMagade Puja Prabhakar	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
27	Mali Pramod Birappa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
28	Uarnade Rupali Uttam	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
29	IShinde Amia Suresh	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
30	ILavate Kirti Dasharath	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100



SHIVALINGESHWAR SHIKSHAN SANSTHA, S SANKH
SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE
COLLEGE, SANKH.
TAL - JATH DIST- SANGLI.
(Affiliated to Shivaji University, Kolhapur)

DEPARTMENT OF MARATHI



CERTIFICATE

This is to Certify that **Mr. /Ms. Thorat Puja Mallikarjun** has
successfully completed the "Certificate Course Advertise Writing Skill
Department of Marathi in Ist Class in the academic year - 2022-23


Co-ordinator


Dr. Dalawai S.P.
I/C Principal

|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Department of History

Certificate Course

2022-23

A Certificate Course in Travel and Tourism



Index

Sr. No	Name of the documents
1	Permission letter
2	Meeting Notice
3	Minutes of Meeting
4	Notice
5	Time table
6	Syllabus
7	Registration
8	Question paper
9	Attendance
10	Certificate



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Date : 11/07/2022

al,
Art, Commerce
: College, Sankh.
st- Sangli.416412

: Regarding permission to commencement of certificate Course in " Travel and
Tourism"

sir,
In the reference to above subject, our History department is going to conduct A
Course in Travel and Tourism for B. A – I Students in this year academic year
I request you to give us permission to conduct above said course.

ou,

Permission Granted
[Signature]



[Signature]

Yours Faithfully
Head

Department of History
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Meeting Notice

The meeting of the members of BOS in certificate course (A Certificate Course in Travel and Tourism) it's in is conveyed on 15 July 2022 for the preparation of syllabus.

Sr. No	Name	Position	Signature
1	Mr.Dalawai.S.P	Chairman	
2	Mr.Sathe .S.D.	Co-rodinator	
3	Miss.Pujari.P.P.	Member	
4	Mr.Mulla.F.M.	Member	
5	Mr.Koli.B.K.	Member	

HOD

Department of History
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College
Sankh, Tal. Jath, Dist. Sangli 416 412

Department of HISTORY

Academic Year -2022-23

(Certificate Course in Travel and Tourism)

Minutes of Meeting

The meeting of the members of BOS in certificate course in Certificate Course in Travel and Tourism is held on 25/07/2022 for the preparation of Course syllabus. The following members of present and prepared the syllabus of the above course and submitted to Co-ordinator.

Sr. No	Name	Position	Signature
1	Mr.Dalawai.S.P	Chairman	
2	Mr.Sathe .S.D.	Co-ordinator	
3	Miss.Pujari.P.P.	Member	
4	Mr.Mulla.F.M.	Member	
5	Mr.Koli.B.K.	Member	


HOD

Head
Department of History
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli




Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Notice

All the B.A.-I students are here by informed that going to organize your certificate courses (Certificate Course in Travel and Tourism) has been scheduled from 27/07/2022 to 07/09/2022 kindly remain present at prescribed time in lecture hall.




Course Co-ordinator



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Department of HISTORY
Certificate Course in Travel and Tourism
Academic Year -2022-23

Time Table

Course Commencement: 27/07/2022 to 07/09/2022

Class	Time	Wednesday 27/07/2022 to 07/09/2022	Thursady 28/07/2022 to 01/09/2022	Friday 29/07/2022 to 02/09/2022
Theory	1:30 PM to 3:30PM	Sathe. S. D.	Sathe .S.D.	Sathe .S.D.



R.K.
Head
Department of History
Shri R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli

Syllabus

TITLE- 'TRAVEL AND TOURISM'

Aims & Objectives:

The main objective of this Programme is To provide training, skill development and education needed to prepare

- individuals for effective job performance in the hospitality, tourism industries.
- To help the students grasping knowledge about various functions in Travel

To provide training, skill development and education needed to prepare

- individuals for effective job performance in the hospitality, tourism industries.

To help the students grasping knowledge about various functions in Travel and Tourism. To develop problem solving skills in students

- To develop ability and to acquire the skill and knowledge of terms, facts, concepts, processes, techniques and principles of Travel and tourism. To expose and to develop interest in the fields of T T

. Learning Outcomes:

On completion of this program, students will be able to understand:

- To analyze the investment trends and hospitality development patterns of International hospitality firms. To identify emerging overseas markets for tourism and hospitality

- **Development.** To understand the socio-economic impact of developing tourism industry in
- **Developing countries.** To understand the management functions of tourism and hospitality industry
- **Including human resource management, financial management, marketing and technology applications.**

1. Duration of course: 45 Days

2. Eligibility to course: Students studying in B. A. 3.

Admission: On the basis of merit Evaluation System: All the students will be continuously evaluated by,

a. One final examination (One paper) 50 M

b. Nature of Theory question paper:

1. Exam is of Objective type. Total 15 objective type questions and 10 one line type questions. Each question carrying 2 marks. (50 marks)

Grades: A grade= above 75, B grade = above 60, C grade = above 50

Certification: A certificate will be issued on successful completion of the course.



Syllabus

Title of Paper: TRAVEL AND TOURISM

Unit 1: Objective of Curriculum (10 lectures)

- a) Detail about national and international tourism
- b) To inform different aspects of tourism business
- c) To inform the students about skill in tourism business for self-employment
- d) To introduce practically about different units in tourism

Unit 2: Concept of Tourism and Scope (10 lectures)

- a) World tourism History, tourism History
- b) Map transportation, temperature and climate
- c) Latitude, altitude
- d) Tradition and culture, State wise festivals in India

Unit 3: Utility and Methods of Tourism Travel (10 lectures)

- a) What is tourism?
- b) Reason intention how where went to travel and methods of travelling

Unit 4: Communication: Art and Practical (10 lectures)

Planning design project office management communication skill use of computer planning of tour communication in English.

Unit 5: Field Visit (05 lectures) References:

- 1) Bhatia A. K.: International Tourism Fundamental & Practices, Sterling Publishers, New Delhi, 1995.
 - 2) Bhatia A. K.: Tourism Development: Principles, Practices & Philosophy Sterling Publishers, New Delhi, 1995.
 - 3) Douglas Pearce: Tourism Today: A Geographical Analysis, Longman Scientific Technical, New York, 1987.
 - 4) Douglas Pearce: Topics in Applied History, Tourism Development, Longman Scientific Technical, New York, 1995.
 - 5) Negi J. M. S.: Tourism & Travel Concepts and Principles, Gitanjali Publishing House, New Delhi.
 - 6) Robinson H.: A History of Tourism, Mac Donald & Evans London, 1978.
 - 7) Selvam M.: Tourism Industry in India, Himalayan Publishing House, Bom and Tourism. To develop problem solving skills in students.
- To develop ability and to acquire the skill knowledge of terms, facts concepts, processes techniques and principles of Travel and tourism. To expose and to develop interest in the fields of T T.
 - **Learning Outcomes:** On completion of this program, students will be able to understand: To analyze the investment trends and hospitality development patterns of International hospitality firms. To identify emerging overseas markets for tourism and hospitality.

- Development. To understand the socio-economic impact of developing tourism industry in
- Developing countries. To understand the management functions of tourism and hospitality industry
- Including human resource management, financial management, marketing and technology applications.

1. Duration of course: 45 Days

• Eligibility to course: Students studying in B. A.

3. Admission: On the basis of merit Evaluation System: All the students will be continuously evaluated by,



Students Registration

Department of HISTORY

Certificate Course in Travel and Tourism

Academic Year -2022-23

Sr.No	Students Name
1.	CHOUGALE UTTAM VILAS
2.	SWAMI BASAYYA SHIVAYYA
3.	MALI AVINASH MAHADEV
4.	CHOUGULE PAVAN SHANKAR
5.	KOLI KAVERI HANAMANT
6.	SHAMBARAGI SOMU ASHOK
7.	CHOUGULE SUSHILKUMAR SADASHIV
8.	JAVIR PUNDALIK SHAMARAO
9.	NAGANE ARCHANA APPASO
10.	SWAMI SHRINIVAS RAJENDRA
11.	PATTANASHETTI MAHANTESH SIDARAY
12.	PAWAR SWAPNIL MAHADEV
13.	KHANDEKAR AKSHATA PRAKASH
14.	PUJARI BHAGYASHREE MALLAPPA
15.	TELI BASVESHVAR SOMANINGA
16.	KARLE SAGAR APPASAB
17.	BIRADAR GOUDAPPA BHIMANNA
18.	MALI RAMESH GURAPPA
19.	AJAMANI MAYAKKA PRAKASH
20.	MANG BHIMARO MALAKARI
21.	WAGHAMARE VASUDHA JALINDAR
22.	SARGAR VIJAY BHAUSAB
23.	SHINDE AMITA SURESH
24.	AWALE AJINKYA PRATAP
25.	GADADE SACHIN HANAMANT
26.	KARJWAD HANAMANT BASAVRAJ
27.	YADAV PUJA GANAPATI
28.	DHANE RAJU SIDDU
29.	RACHAGOND AKASH KASHIRAM
30.	NANDYAL VINOD MAYAPPA
31.	GOTHE SHASHWAT SIDDANNA
32.	BIRADAR PRAVEEN MALLIKARJUN



33.	KHOT AODUMBAR VITHAL
34.	THORAT PUJA MALLIKARJUN
35.	KOLI SHRIDHAR SOMANING
36.	KUMBAR GANGABAI SABU
37.	SHINDE PUNIT SAMBHAJI
38.	BEDAGE SACHIN ARUN
39.	JOSHI BHAGYASHRI VYANKATESH
40.	KAMBLE DEVARAJ SHRIMANT
41.	MALI PRANJALI BASAPPA
42.	KAMBLE SHUBHAM TUKARAM
43.	BIJARAGI VINAYAK MAHADEV
44.	MANE PRAMOD VITHOBA
45.	GUNAKI GOPAL GOUDAPPA
46.	PADADODAR JAYASHREE SHEELISHIDDA
47.	BIRAJADAR DUNDAPPA BASAPPA
48.	SHEHDAGE ABHISHEK ASHOK
49.	SHINDE SUSHILKUMAR DHARMRAJ
50.	TENGAL KEDARABA JAYAGONDA
51.	BORAMANI BHUVANESHWARI KASHINATH
52.	ROTTI HANAMANT ARJUN
53.	CHAVAN SHRINATH RAJARAM
54.	NARALE POOJA DARYAPPA
55.	GODEKAR SHRINATH VITTHAL





|| Dhairyam Sarvatra Sadhanam ||

Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V/100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Department of HISTORY

Certificate Course in Travel and Tourism

Academic Year -2022-23

Type: MCQ

UNIT -1

1. Tourism sector creates more _____ opportunities

1. Job 2. Fund raising 3. Profit making 4. Attractive

2. Eco tourism relates to _____

1. Economic system 2. Financial system 3. Nature 4. E-commerce

3. International tourism helps to earn _____

1. Goodwill 2. Foreign exchange 3. Image building 4. Collaborative Business

4. _____ is the cultural capital of India

1. Mumbai 2. Delhi 3. Nagpur 4. Bangalore

5. Availability of trained _____ is essential for tourism

1. Manpower 2. Candidates 3. Caterers 4. Hoteliers

6. India needs to change its _____ marketing approach to modern marketing approach or developing Tourism.

1. Planning 2. Organising 3. Traditional 4. Management Collaborative Business

7. Shilp-Gram mela is organised in _____

1. Ajmer 2 Agra 3. Delhi 4. Rajasthan

8. _____ country in Asia is emerging as the leading tourist destination

1. Indonesia 2. Thailand 3. China 4. Nepal

9. _____ holidays are one of the type of tourism

1. Wellness and health 2. Music and Recreation 3. Sports 4. Entertainment

10 _____ has successfully tapped the Asian tourism market in terms with competition.

1. Bangladesh 2. Malaysia 3. Singapore 4. India

11. India is the _____ spender on tourism

1. Lowest 2. Highest 3. Moderate 4. Negligible

12. _____ does not play any role in growth of tourism in India

1. Public Sector 2. Private Sector 3. Quasi Sector 4. Micro small industries

13. _____ is a unique tourism product organised in the state of Maharashtra.

1. Kumbh mela 2. ShilpGram Mela 3. Pushkar Mela 4. Odissa handicraft Festival

14. _____ provides traditional crafts designed for shopping purpose in the capital city of India

1. Noida 2. Dilli haat 3. Chandigarh 4. Chennai

5. Indian _____ are not part of tourism for attracting foreigners

1. Places 2. Art 3. Paintings 4. food and taste

6. Tourism destination planning relates to planning of _____

1. Carvings 2. Sculptures 3. Architecture 4. Places

7. Tourism and _____ should go together for promoting tourism activities in India

1. service Industry 2. Product 3. Planning 4. Hotel

18. Tourism activity is _____ generating activity

1. Income 2. Recreation 3. Travel 4. Destination

19. Advertising agencies create jobs in _____ field

1. Banking 2. Copywriters 3. Production Department 4. Technology field

20. The place at which a traveller terminates his journey is called _____

1. Destination 2. Domestic Tourism 3. Excursionist 4. Mass tourism



Department of HISTORY

Certificate Course in Travel and Tourism

Academic Year -2022-23

Student Attendance List

[illegible]

[illegible]

SHRI. SHIVALINGESHWAR SHIKSHAN SANSTHA'S

SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE COLLEGE, SANKH.

TAL – JATH DIST- SANGLI.

(Affiliated to Shivaji University, Kolhapur)

DEPARTMENT OF History



CERTIFICATE

This is to Certify that *Mr. /Ms. JOSHI BHAGYASHRI VYANKATESH* has successfully completed the "Certificate Course in Travel and Tourism Department of History in the academic year 2022-23.


Co-coordinator


I/C Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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DEPARTMENT OF MATHEMATICS

Academic Year 2022-23

REPORT OF CERTIFICATE COURSE

in

**“Mathematical Computation Using
Python”**

(2022-23)

By

Department of Mathematics

Shri R. K. Patil Arts, Commerce & Science College, Sankh.

(2022-23)

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11	Question Paper
12	Certificates

|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

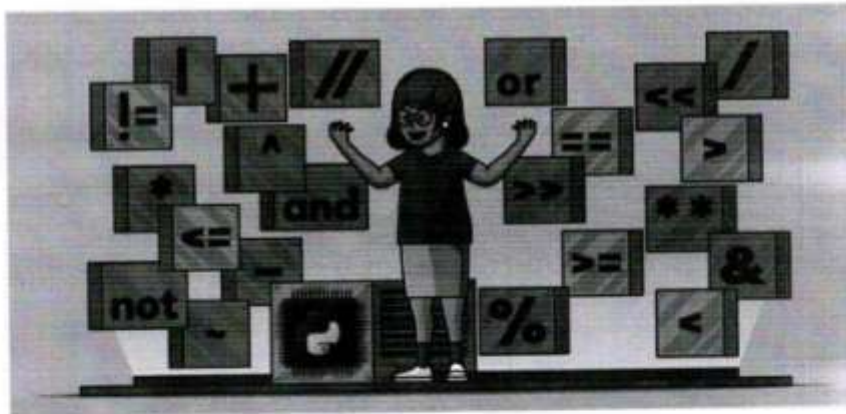
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Certificate Course In
"Mathematical computation
using Python"





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Ci@unishivaji.ac.in

Ref.No.

Date : 20/01/2023

To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course in
"Mathematical computation using Python"

Respected sir,

With the reference to above subject, our Mathematics department is going to conduct certificate course in "Mathematical computation using Python" for B.sc – I Students in this year academic year (2022-23). So, I request you to give us permission to conduct above said course.

Thanking you,

Granted
P. R. Patil
20/01/23

QBS

Yours Faithfully

Head

Department of Mathematics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Meeting Notice

The meeting of the members of BOS in certificate course (A Certificate Course in "Mathematical computation using Python") it's in is conveyed on 22 Jan 2023 for the preparation of syllabus.

Sr. No	Name	Position	Signature
1	Mr.Dalawai.S.P	Chairman	
2	Mrs. Udageri V.S.	Co-rodinator	
3	Mr. Kanamadi B.M.	Member	
4	Mr.Bhirgond M.P	Member	

**HOD
Head**

Department of Mathematics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Principal

I/c. Principal,

Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

Aims and Objectives :-

Students Should

1. Learn the fundamentals of writing Python Scripts.
 2. Write Python Functions to Facilitate code reuse.
 3. Use python to read and write files.
 4. Work with python standard library.
-

OBJECTIVES OF COURSE

- To identify the different components of the Python.
- To enter text and formulas in to an Python.
- To construct formulas to manipulate numeric data in an Python.
- To access and manipulate data using the database functions of Python.
- To learn Python Features and how activities can be performed effectively and efficiently. Using Python.
- Use of Advanced Python formulas and features in intensive data analyses.
- To explore the magic of analyzing data using Advanced Python.
- Mathematical data analysis using Python.

NATURE OF PROGRAMME

Period of Course: 01/02/2023 to 9/3/2023

Duration of Course : 30 Hours

Eligibility of Course : 12th Pass

Intake capacity : 30 Student

Admission : First come first served basis

Registration fee: No



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DEPARTMENT OF MATHEMATICS

SYLLABUS FOR CERTIFICATE COURSE in "MATHEMATICAL COMPUTATION USING PYTHON"

Syllabus to be implemented from July 2019 to onwards.

Aims and Objectives:-

Students should

1. learn the fundamentals of writing Python scripts.
2. write Python functions to facilitate code reuse.
3. use Python to read and write files.
4. work with Python standard library

Course Outcomes:-

1. Student acquire knowledge about writing Python scripts
2. Write Python functions to facilitate code reuse.
3. Works with Python standard library.

Period:-

The duration of the course is 30 days

Evaluation System:-

Course Title	Marks			
Mathematical Computation Using Python	Attendance	Practical	Exam	Total
	20 Marks	50 Marks	30	100 Marks

Nature of Theory question paper:

In The theory question paper, there will be 15 Multiple Choice questions (MCQ)

Each MCQ have four options.

All MCQ's are compulsory.

Each MCQ carries 2 marks.

Nature of Practical question paper:

In the practical question paper, there will be six questions each of 10 marks; a student has to attempt any four questions out of six.

Evaluation of the questions will be online and should be demonstrated to be examiner.

Practical examination is of two hours duration which includes viva examination and online demonstration.

5 Marks for Viva.

Certification: A certificate will be issued on successful completion of the programme.

(Introduced from July 2019)

Title of Course: Mathematical Computation Using Python

Theory: 24 Hrs. (30 Lectures of 48 minutes)
100

Marks-

1. Introduction to Python:
lecture

01

Python, Anaconda, Spyder IDE, Python Identifiers and Keywords, data types, simple mathematical operation, Indentation and Comments., Input and Output, First Python program.

2. Expression and operators: lecture	02
Expression, Boolean expression, logical operations: comparison operator, membership operator, identity operator, bitwise operator. Order of evaluation. File Handling: open, read, write, append modes of file.	
3. Conditional Statements: lecture	02
if-else, nested if-else, if-elif-else, try-except block.	
4. Looping Statements, Control statements: lecture	02
Looping Statements: for loop, while loop, Nested loops Control Statements: break, continue and pass.	
5. Functions: 02 lecture	
Built-in functions, User-defined functions, Arguments, recursive function, Python Anonymous/Lambda Function, Global, Local and Nonlocal variables and return statement.	
6. Modules and packages in Python: lecture	02
Modules, import, import with renaming, from-import statement, math module, math module, random module, packages.	
7. Python Data structure: lecture	02
Strings, list, tuples, dictionary, set and array.	
8. Operations on set and array: lecture	02
Set operations, Intersection, union, difference, symmetric difference, searching and sorting.	
9. Systems of linear algebraic equations: lecture	02
Gauss Elimination Method, LU Decomposition Methods	

10. Roots of Equations: 02
lecture

Bisection, Newton-Raphson Method

11. Initial Value Problems: 02
lecture

Euler's Method, Runge-Kutta Methods.

12. Magic square and Area calculation without measurement. 01
lecture

13. Graph Theory: Networkx 02
lecture

Graph, nodes, edges, directed graph, multigraph, drawing graph, Googlepage rank by random walk method

14. Collatz conjecture and Monte Hall problem 02
lecture

15. Data compression using Numpy 02
lecture

16. Data visualization in Python: 02
lecture

2D and 3D plot in python line plot, bar plot, histogram plot, scatter plot, pie plot, area plot, Mandelbrot fractal set visualization.

Recommended Book:

1. Jaan Kiusalaas, Numerical Methods in Engineering with Python 3,

Cambridge University Press.

2. Amit Saha, Doing Math with Python, No Starch Press, 2015.

3. Yashwant Kanetkar and Aditya Kanetkar, Let Us Python, BPB Publication, 2019.



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NOTICE

Date : 30/01/2023

All the students of all faculties are hereby informed that, our department is going to conduct Certificate course in "Mathematical computation Using Python" for UG Students from 01/02/2023 in this academic year.

The nature of course is as follow:

Duration of Course	: 30 Hours
Eligibility of Course	: All UG Students of any faculty
Admission	: First come first served basis
Maximum no. of student	: 30
Time :	: 1.30 am to 2.30 am (Monday to Saturday)

Those students, who are interested for this course, confirm your admission by register your name before 31/01/2023 in departmental cabin.



[Signature]
Head

Department of Mathematics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Certificate Course in
"Mathematical Computation using Python"

Time Table

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Time						
1.30 Pm to 2.30 Pm	Theory (U.V.S)	Theory (U.V.S)	Theory (U.V.S)	Theory (K.B.M)	Theory (K.B.M)	Practical (K.B.M)
2.30 Pm to 03.30 Pm	




Head
Department of Mathematics
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli



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**Certificate Course in
"Mathematical Computation using Python"**

List of students

Sr.No	Name of Student
1	Sawant Dayanand Shahaji
2	Hiragond Anita Channappa
3	Biradar Jakkavva Dhareppa
4	Akki Vinod Arun
5	Kumbar Anand Ganapati
6	Patil Sahana Mahesh
7	Ankalakot Shrishail Shivanand
8	Bamane Rajashree Layappa
9	Biradar Shruti Mallikarjun
10	Biradar Shweta Gururaj
11	Jamagond Bhimanna Mallikarjun
12	Kale Satish Subhash
13	Kattimani Nikita Sabu
14	Kundale Akshata Gopal
15	Malhalkar Arun Babaso
16	Moradi Dhondappa Manohar
17	Nagane Maheshwari Sambhaji
18	Pawar Laxmikant Bhairavnath
19	Rathod Bhimarao Devappa
20	Shinde Vaibhav Vilas
21	Shingade Adik Raghoba
22	Shingade Sachin Shankar


Course Co-ordinator




HOD
Head
Department of Mathematics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Shri. Shivalingeshwar Shikshan Sanstha's Sankh
Shri. R. K. Patil Arts, Commerce and Science College, Sankh.
Department Of MATHEMATICS (2022-23)
"Mathematical Computation using Python"

Student Attendance

Sr.No	Name of Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Sawant Dayanand Shahaji	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	Hiragond Anita Channappa	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H	A.C.H
3	Biradar Jakkappa Dhareappa	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	Akhi Vinod Arun	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI	AKHI
5	Kumbhar Anand Ganapati	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G	K.P.G
6	Patil Sahana Mahesh	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH
7	Ankalakot Shrishail Shivanand	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
8	Bamane Rajashree Layappa	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
9	Biradar Shruti Mallikarjun	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
10	Biradar Shweta Gururaj	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
11	Jamagond Bhimanna Mallikarjun	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M	J.B.M
12	Kale Satish Subhash	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
13	Kattimani Nikita Sabu	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
14	Kundale Akshata Gopal	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
15	Malhalkar Arun Babaso	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
16	Moradi Dhondappa Manohar	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
17	Nagane Maheshwari Sambhaji	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
18	Pawar Laxmikant Bhairavnath	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	Rathod Bhimarao Devappa	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
20	Shinde Vaibhav Vilas	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
21	Shingade Adik Raghoba	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
22	Shingade Sachin Shankar	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S



Shri. Shivalingeshwar Shikshan Sanstha's Sankh
Shri. R. K. Patil Arts, Commerce and Science College, Sankh.
Department Of MATHEMATICS (2022-23)
"Mathematical Computation using Python"

Student Attendance

Sr.No	Name of Student	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	Sawant Dayanand Shahaji	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS	DBS
2	Hiragond Anita Channappa	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH
3	Biradar Jakkappa Dhareppa	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD
4	Akki Vinod Arun	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK	AKK
5	Kumbhar Anand Ganapati	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG	KAG
6	Patil Sahana Mahesh	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH	PAH
7	Ankalakot Shrishail Shivanand	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA	ASA
8	Barnane Rajashree Layappa	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD
9	Biradar Shruti Mallikarjun	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD
10	Biradar Shweta Gururaj	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD	BLD
11	Jamagond Bhimanna Mallikarjun	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM	JBM
12	Kale Satish Subhash	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL	KAL
13	Kattinani Nikita Sabu	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS	KNS
14	Kundale Akshata Gopal	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN	KUN
15	Malhalkar Arun Babaso	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL	MAL
16	Moradi Dhondappa Manohar	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR	MOR
17	Nagane Maheshwari Sambhaji	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG	NAG
18	Pawar Laxmikant Bhairavnath	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW	PAW
19	Rathod Bhimarao Devappa	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT	RAT
20	Shinde Vaibhav Vilas	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI
21	Shingade Adik Raghoba	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI
22	Shingade Sachin Shankar	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI	SHI





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Ci@unishivaji.ac.in

Department of Mathematics

Date: 13/03/2023

Notice

All students of COC in "Mathematical Computation using Python" is here by informed that the practical exam is held on the date 14/03/2023 at 8.00am attain the same.

Head
Department of Mathematics
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli


(Co-ordinator)

Department of Mathematics

Academic Year 2022-23

Certificate Course in Mathematical Computation using Python

Practical Examination

Date - 14/03/2023 Time - 3 hrs Marks - 50(40+10 oral)



Instruction: 1) All questions are compulsory.
2) Figures to right indicates full marks.

Q.1) A) Write a code to find the numerical solution of differential equation $\frac{dy}{dx} = f(x, y)$ with initial condition $y=y_0$ when $x=x_0$, using Euler's Modified method.

B) Run the Euler's modified method program to solve $\frac{dy}{dx} = x + y$ and $y(0) = 2$, take $h=0.1$ and find the value of y at $x=0.5$

OR

Q.1) A) Write a code to find the Newton-Gregory forward interpolation method.

B) Run the Newton-Gregory forward interpolation method program to find the value of y at $x=0.46$ from the data given below

X	1	1.1	1.2	1.3	1.4
y	0.5403	0.4536	0.3624	0.2750	0.2213

Q.2) A) Write a code to find the numerical solution of differential equation $\frac{dy}{dx} = f(x, y)$ with initial condition $y=y_0$ when $x=x_0$, using fourth order Runge-Kutta method.

B) Run the fourth order Runge-Kutta method program to solve $\frac{dy}{dx} = x^2 y$ and $y(0) = e$, take $h=0.1$ and find the value of y at $x=1$.

OR

Q.2) A) Write a code to find the integration using Simpsons $1/3^{rd}$ method.

B) Run the Simpsons $1/3^{rd}$ method program to evaluate integration $\int_0^1 \frac{1}{1+x} dx$ for 4 strips.

Q.3) Solve any Two of the following problems by using python code.

a) Find the value of $6!$

b) Find the addition of two polynomial of $x^2 + 4x - 9$ and $x^2 + 8x - 8$

c) Find the determinate & inverse of the matrix $\begin{bmatrix} 1 & 0 & -1 \\ 1 & 2 & 1 \\ 2 & 2 & 3 \end{bmatrix}$

d) Plot 2D graph of the function e^x for $x \in [-4, 4]$



॥ Dhairyam Sarvatra Sadhanam ॥
Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh.

**Certificate Course
in
VERMI-TECHNOLOGY**



Department of Zoology
Shri R. K. Patil Arts,
Commerce and Science College,
Sankh. Tal- Jath, Dist-Sangli



Index

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3	Invitation letter
4	Meeting Notice
5	Syllabus
6	List of enrolled students
7	Time table
8	Attendance sheet
9	Reports
10	Certificate





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Ci@unishivaji.ac.in

Ref.No,

Date :01/12/2021

To,

The Principal,

Shri. R.K.P. Art, Commerce

and Science College, Sankh.

Tal-Jath, Dist- Sangli.416412

**Subject: Regarding permission to commencement of certificate Course in
Vermi-technology.**

Respected sir,

With the reference to above subject, our Zoology department is going to conduct certificate course in Certificate Course of Vermi-technology for B. Sc. Students in this year academic year (2021-22). So, I request you to give us permission to conduct above said course.

Thanking you,


Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Ci@unishivaji.ac.in

Ref.No.

Date : 02/12/2021

Invitation Letter

To,
Mr. S. Sajjan
Head, Department of Zoology
R. R College Jath , Tal- Jath,
Dist- Sangli.416404

Subject: Invitation for BOS meeting for the certificate
Course in Vermi-technology

Dear Sir,

I am pleased to inform you that you have been appointed as a member of BOS for the certificate course on "A Certificate Course in Vermi-technology." Department of Zoology is going to organize BOS meeting on 05/12/2021 The meeting will start at 11.00 am. I expect that you will accept our invitation and oblige

Thanking you


Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Zoology

Certificate Course in Vermi-technology

Academic Year -2021-22

Minutes of Meeting

The meeting of the members of BOS in certificate course in Vermitechnology on 8th December 2021 for the preparation of Course syllabus. The following members of present and prepared the syllabus of the above course and submitted to Co-ordinator, Shri. R.K. Patil. ACS College, Sankh.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Mr. G.S. Mali	Co-rodinator	
3	Mr. S.D. Gobbi	Member	
4	Mr. B.R. Madgyal	Member	

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College Sankh
Tal. Jath, Dist. Sangli

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College
Sankh, Tal. Jath, Dist. Sangli 416 412





Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Department of Zoology

Certificate Course in Vermi-technology

Meeting Notice

The meeting of the members of BOS in certificate course in Vermi-technology is conveyed on 7th December 2021 for the preparation of syllabus.

Sr. No	Name	Position	Signature
1	Dr. S.P. Dalawai	Chairman	
2	Mr. G.S. Mali	Co-rodinator	
3	Mr. S.D. Gobbi	Member	
4	Mr. B.R. Madgyal	Member	

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science HOD, Sankh
Tal. Jath, Dist. Sangli

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Vermi-technology

Duration and Intake Capacity –

Duration	Awards	Intake Capacity
03 Months	Certificate	50

Objective:

1. To build an interest about Vermicompost, Vermiwash & Vermiculture among the students
2. To build entrepreneurship skills among the students
3. To encourage students about culture & management of Earthworms
4. To encourage the students for organic farming with the help of vermitechnology.
5. To aware the students about diseases and pests of Earthworm.

Learning Outcomes :

1. Students can construct their own compost in farm & can get monthly income.
2. Students/ farmers by using vermincompost can increase the productivity.
3. Students can produce vermin-compost on small scale for garden/household plants.
4. The candidate can generate income by supplying vermin-culture, vermiwash, & vermin-compost.
- 5.He/she will directly or indirectly help to reduce environmental pollution.

Syllabus :

Unit 1	1.1 Vermicomposting : Introduction and Scope, History, their value in maintenance of soil structure, role as four r's of recycling : reduce, reuse, recycle, restore. 1.2 Types of Earthworm and Classification Epigeic, Endogeic, Diageic species . Useful species of earthworms. 1.3 Life history of Earthworms (Earthworm Species : <i>Eisenia foetida</i> / <i>Eudrillus euginae</i>) 1.4 Objectives of Vermi-compos
Unit 2	2.2 Methods of Vermicomposting: Small and large scale Bed method, Pit method . 2.3 Vermi-compost Production : Establishment of Vermicomposting and Vermi-wash unit



	2.4 Pests and diseases of Earthworms
Unit 3	3.1 Management of vermin-compost bed 3.2 Harvesting the Compost & Vermi-wash 3.3 Storage and packaging of vermin-compost 3.4 Physico- chemical analysis of vermin-compost
Unit 4	4.1 Components of vermin-compost and their role in agriculture 4.2 Importance and use of vermicompost 4.3 Importance & use of vermin-wash 4.4 Marketing & awareness for farmers by organizing farmers meet

Practical's

1. Classification of Earthworm
2. Study of external morphology of Earthworm- Eisenia foetida
3. Study of habit and habitat of Earthworm- Eisenia foetida
4. Study of Digestive system of earthworm
5. Study of Reproductive system of earthworm
6. Study of cocoon and juvenile stages of earthworm.
7. Study of Pests and diseases of Earthworm
8. Establishment of vermicomposting unit: Pit method
9. Establishment of vermicomposting unit: Bed method
10. Establishment of vermin-wash unit
11. Vermicompost production, harvesting and packaging.
12. Study the effects of vermin-compost & vermin-wash on crops.

Contacts :

Coordinator Name : Mr. G.S. Mali

Faculty Name : 1) S.D. Gobbi 2) Mr. B.R. Madgyal





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Zoology

Vermi-technology

B.Sc – II Academic Year 2021-22

List of enrolled students

Sr.No	Name of Student	Sr.No	Name of Student
1	Koti Santosh Chandrashekhar	23	Jadhav Nitin Sanjay
2	Pujari Gurabasu Annappa	24	Jagtap Abhijeet Jagannath
3	Athani Ravindra Sanjay	25	Jagtap Rohit Kondiram
4	Barakade Rani Maruti	26	Kadam Laxmi Basagonda
5	Bhandare Sohel Raju	27	Kadam Vishal Jitendra
6	Biradar Pavitra Basagonda	28	Kamble Sukanya Prakash
7	Biradar Pratibha Ramachandra	29	Karajanagi Akash Sangappa
8	Biradar Sanket Chandrashekhar	30	Kare Kavita Subhash
9	Biradar Shivabai Ashok	31	Karoli Guruningappa Shivappa
10	Biradar Supriya Chidanand	32	Katakar Audumbar Eknath
11	Biradar Vidya Vithal	33	Khilegaon Dayanand Subhash
12	Chikodi Basavant Murlidhar	34	Khilegaon Dhareesh Ramesh
13	Chougule Anand Appasab	35	Kodalkar Subhash Sambhaji
14	Damani Ravi Basaningappa	36	Koli Ajeet Gopal
15	Devresh Kiran Maddu	37	Koli Smeeta Mahantesh
16	Dhepane Santosh Shankar	38	Kulkarni Gauri Sunil
17	Dudhal Akash Piraji	39	Kumbar Dundappa Ramesh
18	Erande Krushna Mahadev	40	Magadam Siddharudh Mallappa
19	Gadade Laxman Vitthal	41	Mane Aravind Sidagonda
20	Ghali Vinayak Mahadevappa	42	Mane Navanath Maruti
21	Honamore Satish Yadappa	43	Karoli Guruningappa Shivappa
22	Jadhav Kedari Mahadev	44	Katakar Audumbar Eknath

Course Co-ordinator



Head of Department
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Zoology

Vermi-technology

Academic Year -2021-22

Timetable

Sr. No	Time	Day	Day
1	3.30 to 4.30 pm	Monday (Lecture)	Saturday (Lecture)
2	4.45 to 5.45 pm	Monday (Lecture)	Saturday (Practical)


Course Coordinator


Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Department of Zoology
Vermi-technology
Academic Year 2021-22

[illegible]

	Jagannath								
25	Jagtap Rohit Kondiram	J.R.K.	R.K.T.	R.K.T.	R.K.T.	R.K.T.	R.K.T.	R.K.T.	R.K.T.
26	Kadam Laxmi Basagonda	L.B.K.	L.B.K.	L.B.K.	L.B.K.	L.B.K.	L.B.K.	L.B.K.	L.B.K.
27	Kadam Vishal Jitendra	V.J.K.	V.J.K.	V.J.K.	V.J.K.	V.J.K.	V.J.K.	V.J.K.	V.J.K.
28	Kamble Sukanya Prakash	S.K.P.	S.K.P.	S.K.P.	S.K.P.	S.K.P.	S.K.P.	S.K.P.	S.K.P.
29	Karjanagi Akash Sangappa	K.A.S.	K.A.S.	K.A.S.	K.A.S.	K.A.S.	K.A.S.	K.A.S.	K.A.S.
30	Kare Kavita Subhash	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.
31	Karoli Guruningappa Shivappa	K.G.S.	K.G.S.	K.G.S.	K.G.S.	K.G.S.	K.G.S.	K.G.S.	K.G.S.
32	Katakar Audumbar Eknath	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.
33	Khilegaon Dayanand Subhash	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.	D.S.
34	Khilegaon Dhareesh Ramesh	K.D.R.	K.D.R.	K.D.R.	K.D.R.	K.D.R.	K.D.R.	K.D.R.	K.D.R.
35	Kodalkar Subhash Sambhaji	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.
36	Koli Ajeet Gopal	A.G.K.	A.G.K.	A.G.K.	A.G.K.	A.G.K.	A.G.K.	A.G.K.	A.G.K.
37	Koli Smeeta Mahantesh	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.
38	Kulkarni Gauri Sunil	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.
39	Kumbar Dundappa Ramesh	D.R.	D.R.	D.R.	D.R.	D.R.	D.R.	D.R.	D.R.
40	Magadum Siddharudh Mallappa	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.	S.M.
41	Mane Aravind Sidagonda	M.A.	M.A.	M.A.	M.A.	M.A.	M.A.	M.A.	M.A.
42	Mane Navanath Maruti	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.
43	Karoli Guruningappa Shivappa	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.	G.S.
44	Katakar Audumbar Eknath	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.	K.A.E.
23	Jadhav Nitin Sanjay	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.
24	Jagtap Abhijeet Jagannath	J.A.	J.A.	J.A.	J.A.	J.A.	J.A.	J.A.	J.A.
25	Jagtap Rohit Kondiram	J.R.K.	J.R.K.	J.R.K.	J.R.K.	J.R.K.	J.R.K.	J.R.K.	J.R.K.
26	Kadam Laxmi Basagonda	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.	K.B.
27	Kadam Vishal Jitendra	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.
28	Kamble Sukanya Prakash	K.S.P.	K.S.P.	K.S.P.	K.S.P.	K.S.P.	K.S.P.	K.S.P.	K.S.P.



29	Karajanagi Akash Sangappa	ASK	ASK	ASK	ASK	ASK	ASK	ASK	ASK
30	Kare Kavita Subhash	KS	KS	KS	KS	KS	KS	KS	KS
31	Karoli Guruningappa Shivappa	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS
32	Katakar Audumbar Eknath	AEK	AEK	AEK	AEK	AEK	AEK	AEK	AEK
33	Khilegaon Dayanand Subhash	SK	SK	SK	SK	SK	SK	SK	SK
34	Khilegaon Dhareesh Ramesh	KOR	KOR	KOR	KOR	KOR	KOR	KOR	KOR
35	Kodalkar Subhash Sambhaji	SSK	SSK	SSK	SSK	SSK	SSK	SSK	SSK
36	Koli Ajeet Gopal	SK	SK	SK	SK	SK	SK	SK	SK
37	Koli Smeeta Mahantesh	SK	SK	SK	SK	SK	SK	SK	SK
38	Kulkarni Gauri Sunil	GK	GK	GK	GK	GK	GK	GK	GK
39	Kumbar Dundappa Ramesh	DRK	DRK	DRK	DRK	DRK	DRK	DRK	DRK
40	Magadum Siddharudh Mallappa	MS	MS	MS	MS	MS	MS	MS	MS
41	Mane Aravind Sidagonda	ASM	ASM	ASM	ASM	ASM	ASM	ASM	ASM
42	Mane Navanath Maruti	NMK	NMK	NMK	NMK	NMK	NMK	NMK	NMK
43	Karoli Guruningappa Shivappa	SK	SK	SK	SK	SK	SK	SK	SK
44	Katakar Audumbar Eknath	AEK	AEK	AEK	AEK	AEK	AEK	AEK	AEK



Department of Zoology
Vermi-technology
Academic Year 2021-22

Sr. No	Name of Student	9	10	11	12	13	14	15	16
1	Koti Santosh Chandrashekhar	Bali	Bali	Bali	Bali	Bali	Bali	Bali	Bali
2	Pujari Gurabasu Annappa	GAP	GAP	GAP	GAP	GAP	GAP	GAP	GAP
3	Athani Ravindra Sanjay	ARS	ARS	ARS	ARS	ARS	ARS	ARS	ARS
4	Barakade Rani Maruti	BRM	BRM	BRM	BRM	BRM	BRM	BRM	BRM
5	Bhandare Sohel Raju	B.S.R	B.S.R	B.S.R	B.S.R	B.S.R	B.S.R	B.S.R	B.S.R
6	Biradar Pavitra Basagonda	B.P.B	B.P.B	B.P.B	B.P.B	B.P.B	B.P.B	B.P.B	B.P.B
7	Biradar Pratibha Ramachandra	BR	BR	BR	BR	BR	BR	BR	BR
8	Biradar Sanket Chandrashekhar	BS	BS	BS	BS	BS	BS	BS	BS
9	Biradar Shivabai Ashok	BSA	BSA	BSA	BSA	BSA	BSA	BSA	BSA
10	Biradar Supriya Chidanand	BS	BS	BS	BS	BS	BS	BS	BS
11	Biradar Vidya Vitthal	B.V.	B.V.	B.V.	B.V.	B.V.	B.V.	B.V.	B.V.
12	Chikodi Basavant Murlidhar	CB	CB	CB	CB	CB	CB	CB	CB
13	Chougule Anand Appasab	A.C.C	A.C.C	A.C.C	A.C.C	A.C.C	A.C.C	A.C.C	A.C.C
14	Damani Ravi Basaningappa	DR	DR	DR	DR	DR	DR	DR	DR
15	Devresh Kiran Maddu	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.
16	Dhepane Santosh Shankar	SSD	SSD	SSD	SSD	SSD	SSD	SSD	SSD
17	Dudhal Akash Piraji	DA	DA	DA	DA	DA	DA	DA	DA
18	Erande Krushna Mahadev	K.M.P	K.M.P	K.M.P	K.M.P	K.M.P	K.M.P	K.M.P	K.M.P
19	Gadade Laxman Vitthal	L.V.	L.V.	L.V.	L.V.	L.V.	L.V.	L.V.	L.V.
20	Ghali Vinayak Mahadevappa	G.V.	G.V.	G.V.	G.V.	G.V.	G.V.	G.V.	G.V.
21	Honamore Satish Yadappa	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.
22	Jadhav Kedari Mahadev	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.	K.M.
23	Jadhav Nitin Sanjay	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S	J.N.S



	Jagannath								
25	Jagtap Rohit Kondiram	A.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T
26	Kadam Laxmi Basagonda	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K
27	Kadam Vishal Jitendra	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K
28	Kamble Sukanya Prakash	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B
29	Karajanagi Akash Sangappa	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S	K.A.S
30	Kare Kavita Subhash	K.S	K.S	K.S	K.S	K.S	K.S	K.S	K.S
31	Karoli Guruningappa Shivappa	K.G.S	K.G.S	K.G.S	K.G.S	K.G.S	K.G.S	K.G.S	K.G.S
32	Katakar Audumbar Eknath	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K
33	Khilegaon Dayanand Subhash	D.S.K	D.S.K	D.S.K	D.S.K	D.S.K	D.S.K	D.S.K	D.S.K
34	Khilegaon Dhareesh Ramesh	R.D.R	R.D.R	R.D.R	R.D.R	R.D.R	R.D.R	R.D.R	R.D.R
35	Kodalkar Subhash Sumbhaji	S.S.K	S.S.K	S.S.K	S.S.K	S.S.K	S.S.K	S.S.K	S.S.K
36	Koli Ajeet Gopal	A.G.K	A.G.K	A.G.K	A.G.K	A.G.K	A.G.K	A.G.K	A.G.K
37	Koli Smeeta Mahantesh	S.M.K	S.M.K	S.M.K	S.M.K	S.M.K	S.M.K	S.M.K	S.M.K
38	Kulkarni Gauri Sunil	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K
39	Kumbar Dundappa Ramesh	D.R.K	D.R.K	D.R.K	D.R.K	D.R.K	D.R.K	D.R.K	D.R.K
40	Magadum Siddharudh Mallappa	M.S.K	M.S.K	M.S.K	M.S.K	M.S.K	M.S.K	M.S.K	M.S.K
41	Mane Aravind Sidagonda	A.S.K	A.S.K	A.S.K	A.S.K	A.S.K	A.S.K	A.S.K	A.S.K
42	Mane Navanath Maruti	N.M.K	N.M.K	N.M.K	N.M.K	N.M.K	N.M.K	N.M.K	N.M.K
43	Karoli Guruningappa Shivappa	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K	G.S.K
44	Katakar Audumbar Eknath	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K
23	Jadhav Nitin Sanjay	N.S.K	N.S.K	N.S.K	N.S.K	N.S.K	N.S.K	N.S.K	N.S.K
24	Jagtap Abhijeet Jagannath	A.J.K	A.J.K	A.J.K	A.J.K	A.J.K	A.J.K	A.J.K	A.J.K
25	Jagtap Rohit Kondiram	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T	R.K.T
26	Kadam Laxmi Basagonda	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K	L.B.K
27	Kadam Vishal Jitendra	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K	V.J.K
28	Kamble Sukanya Prakash	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B	S.K.B



29	Karajanagi Akash Sangappa	AKS	AKS	AKS	AKS	AKS	AKS	AKS	AKS
30	Kare Kavita Subhash	KS	KS	KS	KS	KS	KS	KS	KS
31	Karoli Guruningappa Shivappa	KGS	KGS	KGS	KGS	KGS	KGS	KGS	KGS
32	Katakar Audumbar Eknath	AEK	AEK	AEK	AEK	AEK	AEK	AEK	AEK
33	Khilegaon Dayanand Subhash	DSK	DSK	DSK	DSK	DSK	DSK	DSK	DSK
34	Khilegaon Dharesh Ramesh	KDR	KDR	KDR	KDR	KDR	KDR	KDR	KDR
35	Kodalkar Subhash Sambhaji	SSK	SSK	SSK	SSK	SSK	SSK	SSK	SSK
36	Koli Ajeet Gopal	GPK	GPK	GPK	GPK	GPK	GPK	GPK	GPK
37	Koli Smeeta Mahantesh	SMK	SMK	SMK	SMK	SMK	SMK	SMK	SMK
38	Kulkarni Gauri Sunil	GSK	GSK	GSK	GSK	GSK	GSK	GSK	GSK
39	Kumbar Dundappa Ramesh	KDK	KDK	KDK	KDK	KDK	KDK	KDK	KDK
40	Magadum Siddharudh Mallappa	MSM	MSM	MSM	MSM	MSM	MSM	MSM	MSM
41	Mane Aravind Sidagonda	ASM	ASM	ASM	ASM	ASM	ASM	ASM	ASM
42	Mane Navanath Maruti	NMK	NMK	NMK	NMK	NMK	NMK	NMK	NMK
43	Karoli Guruningappa Shivappa	GKS	GKS	GKS	GKS	GKS	GKS	GKS	GKS
44	Katakar Audumbar Eknath	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K	A.E.K





Department of Zoology Vermi-technology

Academic Year 2021-22

REPORT

Department of Zoology started Certificate course in Vermi-technology from Academic year 2020-21. The main objective of this course is to build entrepreneurship skills among the students and to encourage the students for organic farming with the help of vermin-technology. This course is of 3 months. Course was inaugurated on 1st December, 2021 with auspicious presence of Science faculty in charge Mr. G.S. Mali. Online Examination (MCQ) and oral examination were conducted. Each student who successfully completed this course were awarded course certificate. Outcome of this course resulted in awareness about organic farming among the students.


Course Coordinator


Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



SHIVALINGESHWAR SHIKSHAN SANSTHA, S SANKH
SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE
COLLEGE, SANKH.

TAL - JATH DIST- SANGLI.
(Affiliated to Shivaji University, Kolhapur)

DEPARTMENT OF ZOOLOGY



CERTIFICATE

This is to Certify that **Mr. /Ms.** Kulkarni Gauri Sunil has successfully completed the "Certificate Course Vermi-technology Department of Zoology in 1st Class in the academic year 2021- 22.


Co-ordinator


Hc Principal
Dr. Dalawai S.P.
Shri R. K. Patil Arts, Commerce & Science College,
Sankh, Tal. Jath, Dist. Sangli 415 412



|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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DEPARTMENT OF COMMERCE

Academic Year 2021-22

Career Oriented Course

Certificate Course in Banking

Operations



|| Dhairyam Sarvatra Sadhanam ||

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SKILL ENHANCED & CAREER ORIENTED CERTIFICATE COURSE IN BANKING OPERATION

Course Outcome:

- Identify the operations of banks.
- Acquire sufficient knowledge about banking technicalities.
Identify various terminologies used in banking

enter the job market with confidence and the ability to
work effectively

Course Highlights:

- 1) Well equipped lab facility.
- 2) Trained staff.
- 3) Practical exposure.
- 4) Job Oriented Course
- 5) lad us ended training





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Letter for Permission

Asst. Prof.Narute C J
Head, Department of Commerce,
R.K.Patil Arts,Commerce and Science
College Sankh,

To,
Principal,
R.K.Patil Arts,Commerce And Science
College Sankh, Dist- Sangli.

Subject: Permission for carrier oriented courses in commerce.

Dear Sir,

Department of commerce has planned to conduct and complete carrier oriented certificate courses in banking operation and marketing & supply chain management with the help of faculty of commerce department. The present two certificate courses are proposed to conduct in the month of January to March during academic year 2021-22, I request to grant permission for the said COC.

Thanking you,

Yours Faithfully,

Head
Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Date: 07th Oct, 2021

MEETING NOTICE

All the members of the board of studies in commerce are hereby informed that the members meeting is organized on 10 October, 2021 at 11.30 am in department of commerce. All the members are requested to attend the meeting to discuss the following agenda.

AGENDA OF THE MEETING

1. Discussion on start carrier oriented certificate course in banking operation and marketing, supply chain management,
2. Discussion on distribution of workload and syllabus of COC courses.
3. Discussion on drafting syllabus of COC-Banking and COC-Marketing.
4. Discussion on evaluation pattern of COC-Banking and COC-Marketing.



Course content

Unit No.	Name & Contents of Units
Unit I	<u>Introduction to Banking</u> Introduction to Banking sector Various types of banks Basics of banking operations
Unit II	<u>Financial Accounting In Bank</u> Banking accounts Sources of income for a bank Analysis of financial statements of banks
Unit III	<u>Recent Trends in Banking</u> Internet and mobile banking Payment and settlement systems in banks Banking products NEFT, RTGS, ATM, Debit Cards, Credit Cards.
Unit IV	<u>Practical Banking (Through Bank Visit)</u> 1. Opening of an Account 2. Operation of Bank System 3. Closing of an Account

Career opportunities and employability:

Students will be able to have ample knowledge regarding banking fundamentals which will help them to make career in banking sector. The course will help students to develop professional skills to work in a bank.



References:

1. Iyengar K. V. (2007), Introduction to Banking, Excl Books, New Delhi.
2. Mithani D. M. (2018), Money, Banking, International Trade and Public Finance, 20th revised edition, Himalaya Publishing House, Mumbai.
3. Natarajan S. and Parameswaran R. (2017) Indian Banking, S. Chand & company Ltd., New Delhi.
4. Datta Sundaram (2020), Indian Economy, S. Chand & company Ltd., New Delhi.
5. Upal R.K. (2009), Modern Banking in India, New Century Publisher, New Delhi.
6. Sheklhar K. C. (2015), Banking Theory & Practice, Vikas Publishing House, Pvt, Ltd, Noiada.
7. Agarwal O.P. (2011) Banking & Insurance, Himalaya Publishing House, Mumbai.
8. Reserve Bank of India Annual Report- 2021, Mumbai.
9. Economic Survey of India- 2021-22, Govt. Of India, New Delhi.





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Date- 07-10-2021

Notice

All students of commerce faculty are hereby informed that department of commerce starting carrier oriented "Certificate course in Banking Operation". The duration of this course is 11 October 2021 to 23 Nov 2021. The registration is start now, for further information contact to the course co-coordinator and HOD department of commerce.



Head

Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Student Attendance List

Student Attendance List

Sr. NO	STUDENTS NAME	Class	Sign	Sign	Sign	Sign	Sign	Sign	Sign
1	SHARAD KUMAR CHAND	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
2	RAJESH KUMAR PRAKASH	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
3	KANAKA ANNET SURESH	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
4	RAJESH KUMAR ADITHYAN	B.com	Mali	Mali	Mali	Mali	Mali	Mali	Mali
5	RAJESH KUMAR SAKSHI PRIYA	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
6	KANAKA ANNET SURESH	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
7	RAJESH KUMAR ADITHYAN	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
8	KANAKA ANNET SURESH	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
9	RAJESH KUMAR ADITHYAN	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
10	TANU NARAYAN DRYAN SHYAM	B.com	N 27	N 27	N 27	N 27	N 27	N 27	N 27
11	TANU NARAYAN DRYAN SHYAM	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
12	TERESA PALLAV BHAKTAPPA	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
13	NEEL NAGESH VISHNUPANT	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
14	KANAKA ANNET SURESH	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
15	RAJESH KUMAR ADITHYAN	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
16	MULLA SAKSHI KATUN	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK
17	VAGHNI RAKESH PARNESHWAR	B.com	ASK	ASK	ASK	ASK	ASK	ASK	ASK



18	GODKAR GANESH SANTOSH	B.com	GR	GR	GR	GR	GR	GR	GR
19	BABER GANESH BALASO	B.com	GR	GR	GR	GR	GR	GR	GR
20	KALAWADE RUPALI LAXMAN	B.com	NRI	NRI	NRI	NRI	NRI	NRI	NRI





॥ Dhairyaṁ Sarvaṁ Saṁharati ॥

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**CERTIFICATE COURSE IN BANKING OPERATIONS 2021-22
FINAL ENROLLMENT LIST FOR COURSE**

Sr. NO	STUDENTS NAME
1	SHAIKH IBRAHIM CHAND
2	MALI AISHWARYA PRAKASH
3	KASHID ANIKET SURESH
4	MALI KOMAL SIDDESHWAR
5	MUJAWAR SAMIYA FIROJ
6	KANAMADI ASHWINI SANGAPPA
7	INGOLE SHRIDEVI JYOTIBA
8	SHINDE ARPITA ANANDRAO
9	BIRAJADAR SHARAD UTTAM
10	TAMBE NANDA DNYANESHWAR
11	TAMBE POOJA GUNDIBA
12	TERADAL PALLAVI BHAIRAPPA
13	NIKAM NAGESH VISHNUPANT
14	NIKAM SHRINATH KRUSHNDEV
15	GAVANDI DAWAL JAKIR
16	MULLA SANIYA KASIM
17	VAGHOLI RAKESH PARMESHWAR
18	GODEKAR GANESH SANTOSH
19	BABER GANESH BALASO
20	NALAWADE RUPALI LAXMAN





|| Dhairyam Sarvatra Sadhanam ||

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Date- 10-11-2022

Notice

All students of commerce faculty are hereby informed that the students registered for carrier oriented "Certificate course in Banking Operation". The final written examination and oral examination conducted on same day and date. Registered students attendance is compulsory. The schedule of examination is as below.

(13 November 2022)




Head
Department of Commerce
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli



|| Dhairyam Sarvatra Sadhanam ||

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Certificate Course in BANKING OPERATIONS
2021-22
MARK-SHEET

Sr. No	Name of the student	Written exam	Oral exams	Total
1	SHAIKH IBRAHIM CHAND	30	7	50
2	MALI AISHWARYA PRAKASH	32	8	50
3	KASHID ANIKET SURESH	25	6	50
4	MALI KOMAL SIDDDESHWAR	26	7	50
5	MUJAWAR SAMIYA FIROJ	28	8	50
6	KANAMADI ASHWINI SANGAPPA	31	6	50
7	INGOLE SHRIDEVI JYOTIBA	32	7	50
8	SHINDE ARPITA ANANDRAO	36	6	50
9	BIRAJADAR SHARAD UTTAM	35	6	50
10	TAMBE NANDA DNYANESHWAR	34	8	50
11	TAMBE POOJA GUNDIBA	33	7	50
12	TERADAL PALLAVI BHAIRAPPA	32	6	50
13	NIKAM NAGESH VISHNUPANT	31	6	50
14	NIKAM SHRINATH KRUSHNDEV	30	8	50
15	GAVANDI DAWAL JAKIR	36	7	50
16	MULLA SANIYA KASIM	37	6	50
17	VAGHOLI RAKESH PARMESHWAR	32	7	50
18	GODEKAR GANESH SANTOSH	37	9	50
19	BABER GANESH BALASO	32	8	50
20	NALAWADE RUPALI LAXMAN	35	7	50





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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TIME-TABLE

Date	Time/Hours	Name of the Teacher	Title of the Topics
11,12,13,14 &15 October 2021	11-00AM to 11-45AM	Narute c j	Topic: 1. Introduction to Banking Introduction Sector to Banking Various types of banks Basics operations of Banking Operations
16, 18, 19,&20 October 2021	11-00AM to 11-45AM	INGALE M R	Topic- 2 Financial Accounting in banks Banking Accounts Sources of income for a bank Analysis of financial statement Banks.
21, 22, 23&26 October 2021	11-00AM to 11-45AM	INGALE M R	Topic-3 Recent trends in Banking interest and mobile bank payment and settlement systems in bank.
27, 28, 29&30 October 2021	11-00AM to 11-45AM	NARUTE C J	Topic-3 Recent trends in banking NEFT, RTGS, ATM, Debit, Cards, and Credit cards.
01,02,03 & 04 Nov 2021	11-00AM to 11-45AM	INGALE M R	Practical banking Thought Bank Visit 1. Opening of an Account 2.operation of Bank system. 3. Choosing of an Account.
05,06,08 & 09 Nov 2021	11-00AM to 11-45AM	NARUTE C J	Practical's on; Interest and mobile banking
10, 11, 12 & 13 Nov 2021	11-00AM to 11-45AM	NARUTE C J	Practical on RTGS, NEFT
15, 16, 17& 18 Nov 2021	11-00AM to 11-45AM	INGALE M R	Practical's on; Interest and mobile baking.
19, 20, 22 & 23 Nov 2021	11-00AM to 11-45AM	NARUTE C J	Online Banking, Debit Cards, and Credit Cards.



Am
Head
Department of Commerce
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli

Question Paper**MARKS 40**

1) _____ Allocation saving efficiently in an economy to ultimate users for investment in real assets or for Consumption.

- A) Economic system B) Financial system
C) Market system D) Banking system

2) When of the following is not a regulatory institution in Indian financial system.

- A) RBI B) SEBI
C) CIBIL D) IRDA

3) _____ is regarded as a queen of Indian financial System.

- A) SEBI B) Financial Ministry
C) BSE D) RBI

4) National housing bank is a fully owned subsidiary of _____

- A) RBI B) HDFC
C) HUDCO D) HSBC

5) Financial institutions are also known as _____

- A) Financial organization B) Financial system
C) Financial intermediaries D) All of the above

6) _____ is the first development financial institution in India.

- A) RBI B) IFCI
C) IDBI D) ICICI

7) IDBI was established in _____

- A) 1954 B) 1964
C) 1992 D) 1948

8) _____ is an apex institution to coordinate, supplement and integrate the activities of all existing specialized financial institutions.

- A) IFCI B) RBI
C) IDBI D) SEBI

9) Which was the following is not an asset held by commercial Banks.

- A) Bills of exchange B) Money lent at short notice

C) Current account Deposits D) Credit balance with the reserve bank

10) Which of the following combination is correct.

- A) NABARD industrial Loan B) RBI long term Finance
C) IDBI Short term Loans D) RRB Agricultural Loan

11) Which of the following is not an organized sector in India.

- A) Nationalized Banks B) Cooperative Banks
C) Regional Rural Banks D) Chits & Money Lenders



12) In which year was the Banking Regulation Act Passed.

- A) 1959 B) 1969
- C) 1949 D) 1955

13) When did the National Bank of Agriculture & Rural Development established.

- A) July 1982 B) July 1969
- C) July 1951 D) June 1996

14) Which of the following is the apex institution which handles refinance for agriculture and rural development in India.

- A) RBI B) NABARD
- C) SIDBI D) RBI

15) At which of the following cities is the head of Reserve Bank of India located.

- A) Mumbai B) Kolkata
- C) New Delhi D) Deharadun

16) Scheduled Bank in India means a Bank _____

- A) Incorporated under the Companies act, 1956.
- B) Authorized to the Banking business.
- C) Governed by the Banking Regulation Act, 1949.
- D) Included in the Second schedule to the Reserve Bank of India Act 1934.

17) Which is the largest commercial bank of India.

- A) Bank of India B) State bank of India
- C) Axis bank D) HDFC

18) Cooperative societies Act was enacted in which year.

- A) 1912 B) 1935
- C) 1949 D) 1913

19) In which year was the bank of Maharashtra established.

- A) 1937 B) 1935
- C) 1934 D) 1949

20) How many developments banks are there in India.

- A) 5 B) 6 C) 7 D) 8





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Email : College : rkpcollegesankh@gmail.com ✽✽✽ Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

CERTIFICATE

This is to Certify that **Mr. /Ms. Birajadar, S. Uttam** has successfully completed the Certificate course in Banking Operation at graduate Department of Commerce in the academic year 2021-22.


Co-coordinator

Head
Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli


Dr. Dalawai.S.P

I/C Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412





|| Dhairyam Sarvatra Sadhanam ||
Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.
Tal.Jath, Dist.Sangli. 416 412. College Code : 616
Estd-19/7/2018(N.G.C.2018/N.M.V/100/18)M.C-4)
PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.CI@unishivaji.ac.in

Autonomous (Self-Financed) Short Term Course

in

"Mushroom Cultivation"

Organized by

Department of Botany

Smt: S.S.Rathod

Head and Course Co-ordinator

Department of Botany

2021-2022





Head

Department of Botany

**Shri R.K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli**

॥ Dhairyam Sarvatra Sadhanam ॥

Shri Shivalingeshwar Shiksan Sanstha's Sankh

**Shri R. K. Patil Arts, Commerce and Science College,
Sankh.**

**Certificate Course
In
MUSHROOM CULTIVATION**



**Department of Botany,
Shri RK Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli**





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Ref.No.

Date : 08/09/2022

To,

The Principal,

Shri. R.K.P. Art, Commerce

and Science College, Sankh.

Tal-Jath, Dist- Sangali.416412

Subject: Regarding permission to commencement of certificate Course in Certificate

Course of Mushroom Cultivation

Respected sir,

With the reference to above subject, our Botany department is going to conduct certificate course in Certificate Course of **Mushroom Cultivation** for B. Sc. Students in this year academic year (2021-22). So, I request you to give us permission to conduct above said course.

Thanking you,

Yours Faithfully

Department of Botany,

Shri RK Patil Arts, Commerce and Science College, Sankh,
Tal. Jath, Dist. Sangli.
Shri. R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli.

Granted
Principal





|| Dhairyam Sarvatra Sadhanam ||
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Department of Botany Short Term Course: "Mushroom Cultivation"

(2021-2022)

THEORY SYLLABUS

UNIT-1:

(6 Lectures)

Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible); Nutritional values of mushrooms, Scope for large scale cultivation, Different cuisines by using mushroom

UNIT-2:

(6 Lectures)

Methodology for mushroom cultivation: Preparation of Spawn (grain spawn and straw spawn); Preparation of mushroom bed; Spawning of mushroom bed; Watering of mushroom bed; Harvesting of mushroom

UNIT-3:

(6 Lectures)

Harvest and Post-Harvest Handling:

Precautions for mushroom Harvesting, Grading, Post-harvest techniques and storage

UNIT-4:

(2 Lectures)

Need for the mass cultivation; Market status of mushroom; Different marketing strategies





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Department of Botany Short Term Course: "Mushroom Cultivation"

(2021-2022)

LIST OF PRACTICALS

Practical 1. Study of Classification of Mushroom

Practical 2. Study of preparation of Spawn (grain spawn and straw spawn)

Practical 3. Study of technique of mushroom culture on bed

Practical 4. Study of harvesting methods of mushroom

Practical 5. Study of different food preparations from edible mushroom

Practical 6. Study of Grading; drying; storage methods



To
R.V. LAVATE
HOD of Botany Department ,
R.R college Jath
A/P- Jath, Tal- Jath
Dist- Sangli

Subject: Invitation as a resource person for certificate course in
"Mushroom Cultivation"

Respected Sir ,

I am pleased to invite you to conduct certificate course in
"Mushroom Cultivation" for academic 2021-22 under Department of Botany from
Date 12/01/21 to 15/03/2022.

We look forward your presence and guidance

Thanking you

[Signature]
your faithfully

Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal, Jath, Dist. Sangli





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Department of Botany Short Term Course: "Mushroom Cultivation"
(2021-2022)

SYLLABUS DISTRIBUTION FOR THEORY AND PRACTICALS

Lectures: 30 (Theory: 20 and Practical: 10)

Sr. No	Theory	Faculty
1.	Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible), Nutritional values of mushrooms, Need for the mass cultivation, Market status of mushroom, Scope for large scale cultivation	S.B. Patil
2.	Different Practices for mushroom cultivation Preparation of Spawn. Preparation of mushroom bed, spawning of mushroom bed, Watering of mushroom bed, Harvesting of mushroom.	S.S Rathod
3.	Necessary precautions for mushroom cultivation	B.G.Koli
4.	Post-harvest storage, Different marketing strategies	A.B.bandagar
	Practicals	Name of Faculty
1.	Preparation of Spawn/mushroom bed	S.B. Patil
2.	Culturing of mushroom and watering of bed	S.S Rathod
3.	Harvesting of mushroom	B.G.Koli
4.	Necessary precautions during harvesting and their storage	A.B.bandagar



Head and Course Co-ordinator

Department of Botany Head

Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



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Department of Botany Short Term Course: "Mushroom Cultivation"

(2021-2022)

BOS PANEL

INTERNAL EXPERT

Sr. No.	Name of Faculty	Designation
1.	S.S Rathod	Head and Course co-ordinator Department of botany
2.	S.B. Patil	Assistant Professor Department of botany
3.	B.G.Koli	Assistant Professor Department of botany
4.	A.B.bandagar	Assistant Professor Department of botany

External Expert

Sr. No.	Name of Faculty	Designation
01	.R.V.LAVATE	HOD of Botany Department R.R college Jath




Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

|| Dhairyam Sarvatra Sadhanam ||



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Department of Botany

Short Term Course: "Mushroom Cultivation"

(2021-2022)

Time -Table

Time	Day		
2.30-3.30pm	Lecture	Monday (Batch -A)	Thursday (Batch-B)
2.30-3.30pm	Practical	Tuesday (Batch -A)	Friday (Batch-B)



Head
Department of Botany
Shri R. K. Patil Arts, Commerce
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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2021-2022)

Date : 29 /12/2021

NOTICE

All the students of B.Sc I are hereby informed that the Department of Botany is conducting a self financed one month Short Course on "Mushroom Cultivation".

Intrested students register their names to S.B. Patil before 12 /01/2022.




Coordinator
Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli


Director/Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



|| Dhairyam Sarvatra Sadhanam ||
Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany

Short Term Course: "Mushroom Cultivation"

(2021-2022)

Resistration List

Sr No	Name of students
1.	PANDHARE MHALAPPA SAYAPPA
2.	PATIL GANESH RAM
3.	MALI AKSHATA SIDDESHWAR
4.	HYALAKAR ALLAUDDIN ADAMMAHAMAD
5.	MOTE SHASHIKANT KRUSHNA
6.	KAMBLE BHIMRAO PRAKASH
7.	KOKARE SURESH BHANUDAS
8.	SAVANT RANAJIT SHASHIKANT
9.	KARE DULUBA ANNAPPA
10.	PUJARI ARACHANA SHANKAR
11.	MADABHAVI AISHWARYA SHRISHAIL
12.	KARE DHANAJI TUKARAM
13.	KHOT JYOTI DHANAJI
14.	CHOUGULE PRAVIN GOVIND
15.	BAJANTRI SHIVANAND NARAYAN
16.	GAIKWAD KOMAL SAMBHAJI
17.	NARALE PRADNYA JAYAWANT
18.	KOLI RAMDAS SIDRAYA
19.	CHAMKERI TEJASWI ISHWAR
20.	GHAGARE SACHIN PANDURANG



SSP
Head

Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany
 Short Term Course: "Mushroom Cultivation"
 (2021-2022)

Attendance for theory

Sr No	Name of students	Dates							
		14 th Feb	18 th Feb	21 th Feb	24 th Feb	7 th Mar	11 th Mar	14 th Mar	21 th Mar
1.	PANDHARE MHALAPPA SAYAPPA	MB	MB	MB	MB	MB	MB	MB	MB
2.	PATIL GANESH RAM	G.R.P	G.R.P	G.R.P	G.R.P	G.R.P	G.R.P	G.R.P	G.R.P
3.	MALI AKSHATA SIDDHESHWAR	ASD	ASD	ASD	ASD	ASD	ASD	ASD	ASD
4.	HYALAKAR ALLAUDDIN ADAMMAHAMAD	AHL	AHL	AHL	AHL	AHL	AHL	AHL	AHL
5.	MOTE SHASHIKANT KRUSHNA	Mot	Mot	Mot	Mot	Mot	Mot	Mot	Mot
6.	KAMBLE BHIMRAO PRAKASH	Bm	Bm	Bm	Bm	Bm	Bm	Bm	Bm
7.	KOKARE SURESH BHANUDAS	KSB	KSB	KSB	KSB	KSB	KSB	KSB	KSB
8.	SAVANT RANAJIT SHASHIKANT	Ran	Ran	Ran	Ran	Ran	Ran	Ran	Ran
9.	KARE DULUBA ANNAPPA	KAR	KAR	KAR	KAR	KAR	KAR	KAR	KAR
10.	PUJARI ARACHANA SHANKAR	ARS	ARS	ARS	ARS	ARS	ARS	ARS	ARS
11.	MADABHAVI AISHWARYA SHRISHAIL	Deel	Deel	Deel	Deel	Deel	Deel	Deel	Deel
12.	KARE DHANAJI TUKARAM	KAR	KAR	KAR	KAR	KAR	KAR	KAR	KAR
13.	KHOT JYOTI DHANAJI	J.D.K	J.D.K	J.D.K	J.D.K	J.D.K	J.D.K	J.D.K	J.D.K
14.	CHOUKULE PRAVIN GOVIND	PGR	PGR	PGR	PGR	PGR	PGR	PGR	PGR
15.	BAJANTRI SHIVANAND NARAYAN	BNR	BNR	BNR	BNR	BNR	BNR	BNR	BNR
16.	GAIKWAD KOMAL SAMBHAJI	KOM	KOM	KOM	KOM	KOM	KOM	KOM	KOM
17.	NARALE PRADNYA JAYAWANT	NPS	NPS	NPS	NPS	NPS	NPS	NPS	NPS
18.	KOLI RAMDAS SIDRAYA	SRD	SRD	SRD	SRD	SRD	SRD	SRD	SRD
19.	CHAMKERI TEJASWI ISHWAR	TES	TES	TES	TES	TES	TES	TES	TES
20.	GHAGARE SACHIN PANDURANG	SPG	SPG	SPG	SPG	SPG	SPG	SPG	SPG



Head
 Department of Botany
 Shri R. K. Patil Arts, Commerce
 College, Sankh
 Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany
 Short Term Course: "Mushroom Cultivation"
 (2021-2022)

Attendance for Practicle

Sr No	Name of students	Dates							
		15 th Feb	19 th Feb	22 th Feb	25 th Feb	8 th Mar	10 th Mar	16 th Mar	23 th Mar
1.	PANDHARE MHALAPPA SAYAPPA	MSP	MSP	MSP	MSP	MSP	MSP	MSP	MSP
2.	PATIL GANESH RAM	GRP	GRP	GRP	GRP	GRP	GRP	GRP	GRP
3.	MALI AKSHATA SIDDHESHWAR	A-SM	A-SM	A-SM	A-SM	A-SM	A-SM	A-SM	A-SM
4.	HYALAKAR ALLAUDDIN ADAMMAHAMAD	DM	DM	DM	DM	DM	DM	DM	DM
5.	MOTE SHASHIKANT KRUSHNA	Mote	Mote	Mote	Mote	Mote	Mote	Mote	Mote
6.	KAMBLE BHIMRAO PRAKASH	Kambl	Kambl	Kambl	Kambl	Kambl	Kambl	Kambl	Kambl
7.	KOKARE SURESH BHANUDAS	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP
8.	SAVANT RANAJIT SHASHIKANT	RSS	RSS	RSS	RSS	RSS	RSS	RSS	RSS
9.	KARE DULUBA ANNAPPA	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP
10.	PUJARI ARACHANA SHANKAR	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP
11.	MADABHAVI AISHWARYA SHRISHAIL	ISM	ISM	ISM	ISM	ISM	ISM	ISM	ISM
12.	KARE DHANAJI TUKARAM	DTK	DTK	DTK	DTK	DTK	DTK	DTK	DTK
13.	KHOT JYOTI DHANAJI	JD	JD	JD	JD	JD	JD	JD	JD
14.	CHOUGULE PRAVIN GOVIND	PAG	PAG	PAG	PAG	PAG	PAG	PAG	PAG
15.	BAJANTRI SHIVANAND NARAYAN	SNB	SNB	SNB	SNB	SNB	SNB	SNB	SNB
16.	GAIKWAD KOMAL SAMBHAJI	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN
17.	NARALE PRADNYA JAYAWANT	PJN	PJN	PJN	PJN	PJN	PJN	PJN	PJN
18.	KOLI RAMDAS SIDRAYA	RS	RS	RS	RS	RS	RS	RS	RS
19.	CHAMKERI TEJASWI ISHWAR	TIC	TIC	TIC	TIC	TIC	TIC	TIC	TIC
20.	GHAGARE SACHIN PANDURANG	S-PG	S-PG	S-PG	S-PG	S-PG	S-PG	S-PG	S-PG



Head
 Department of Botany
 Shri R.K. Patil Arts, Commerce and Science College, Sankh



|| Dhairyam Sarvatra Sadhanam ||
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Department of Botany Add-On Course: "Mushroom Cultivation"
(2021-2022)

Question paper

Total Marks: 50

Time: 11.00 am-1:00 pm

Date: April 29th, 2022

- Instructions:** 1. All questions are compulsory
2. Draw neat and labelled diagrams wherever necessary.
3. Figures to the right indicate full marks.

Q. 1 Write short notes on any six: (30 Marks)

- Describe the nutritional values and health benefits of mushroom?
- Why there is need for mass cultivation of mushrooms?
- Write in brief about different marketing strategies for mushroom?
- How to differentiate edible and non-edible mushrooms?
- Write a brief note of the preparation of spawn and mushroom bed?
- Need of post-harvest storage for mushrooms.

Q. 2 Long answer questions (Any two). (20 Marks)

- What are the different practices for mushroom cultivation?
- What are the necessary precautions for mushroom cultivation during post-harvest storage?
- What are different nutritional deficiencies in humans and how the consumption of mushroom will helpful; to overcome those deficiencies?



SHRI SHIVAJINGESHWAR SHIKSHAN SANSTHA'S SANKH
SHRI R.K. PATIL ARTS, COMMERCE AND SCIENCE COLLEGE SANKH

TAL - JATH DIST - SANGLI
(Affiliated to Shivaji University, Kolhapur)
GRADUATE DEPARTMENT OF BOTANY



CERTIFICATE

This is to certify that *Mr. /Ms. Khodiyaji Thonaji* successfully completed the
"Mushroom Cultivation" at Graduate Department of Botany the academic year 2021 - 2022

[Signature]
Prof. Rathod S.S
Course Co-ordinator
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli

[Signature]
Dr. Dalawai S.P
I/C Principal
Shri R. K. Patil Arts, Commerce & Science College,
Sangli, Dist. Sangli 416 412



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Email : College : rkcpcollegesankh@gmail.com *** Email : Vidyapeetha : rkc616.Ci@unishivaji.ac.in

Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

INDEX

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		Attendance	6
		Examination Notification/Question-Paper	7
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Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Ref.No.

Date: 22/02/2022

To,

The Principal,

Shri. R.K.P. Art, Commerce
and Science College, Sankh.

Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course in Certificate

Course of IBPS

Respected sir,

With the reference to above subject, our Commerce department is going to conduct certificate course in Certificate Course of IBPS for B. Com. Students in this year academic year (2021-22). So, I request you to give us permission to conduct above said course.

Thanking you,

Chs
Yours Faithfully

Department of Commerce
Shri RK Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli

Head
Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Granted
Prasanna



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

Report

Department of Commerce conducted short term course in Basics of IBPS Examination 2021-22. In this course 53 students were admitted for this year. The Course was conducted with the aims to provide basic knowledge of IBPS examination. The students will get knowledge and prepared for competitive examination. This course was conducted successfully as per the timetable. The examination was conducted for students. The certificates were distributed to the successful students.





**Shri R. K. Patil Arts, Commerce and Science
College, Sankh
Department of Commerce**



Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

1. Eligibility : XII std. Pass.
2. Duration of Course : 1 Months (1st March 2022 to 31st March 2022)
3. No. of Students 53
4. Examination : Theory (50 marks),
5. Faculty : Miss. Narute C. G.
6. Coordinator : Mr. Bhairgonda M. P
Dept. of Commerce,
Shri R. K. Patil Arts, Commerce and Science College, Sankh.





**Shri R. K. Patil Arts, Commerce and Science College,
Sankh.**

Department of Commerce



Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

Syllabus

Chapter	Name of Chapter	Periods
1.	Reasoning Ability Seating Arrangements, Puzzles Inequalities, Syllogism, Input-Output Data Sufficiency, Blood Relations Order and Ranking, Alphanumeric Series Distance and Direction, Verbal Reasoning	08
2.	English Language Cloze Test, Reading Comprehension Spotting Errors, Sentence Improvement Sentence Correction, Para Jumbles Fill in the Blanks, Para/Sentence Completion	07
3.	Quantitative Aptitude Number Series, Data Interpretation Simplification/ Approximation Quadratic Equation, Data Sufficiency Average, Profit and Loss Ratio and Proportion Work, Time, and Energy Time and Distance, Probability, Relations Simple and Compound Interest Permutation and Combination	10
4.	General/ Economy/ Banking Awareness	05





**Shri R. K. Patil Arts, Commerce and Science College,
Sangli.**

Department of Commerce



Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

Duration: - From 1st March 2022 to 31st March 2022

TIME TABLE:

Sr.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	1.00Pm To 2.00Pm	Theory BMP	Theory CGN	Theory CGN	Theory BMP	Theory BMP	Theory CGN

1. CGN – Miss. Narute Chhaya Govind
2. BMP – Mr. Bhairgonda Mallikarjun P.




Head
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Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli



**Shri R. K. Patil Arts, Commerce and Science
College, Sankh.**

Department of Commerce



Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

Date: 25th February, 2022

Notice

All the students of B.Com I, II and III are hereby informed that Department of Commerce is going to organize short term course in "Basics of IPBS Examination" from 1st March, 2022 at 1.00 Pm. Students should remain present at given time in Lecture Hall.




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Department of Commerce
Shri R. K. Patil Arts, Commerce
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**Shri R. K. Patil Arts, Commerce and Science College,
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Department of Commerce



Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

Date: 2nd April , 2022

Notice

All the students of Short term Course in Basics of IBPS Examination are hereby informed that Examination of the Course will be conducted on 10th April , 2022 at 1.30 p.m.to 2 .30 p.m.




Head

**Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli**



Shri R. K. Patil Arts, Commerce and Science College,
Sankh.
Department of Commerce



Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

Result Sheet

Sr.No.	Student Name	Marks obtained
1	SALUNKHE SANTOSH SOMANING	40
2	BHOSALE SURAJ DILIP	24
3	KODAG SUSHANT ACHYUTRAO	22
4	ATHANIKAR SANDIP MAHADEV	20
5	BORADE PRAJWAL SHIVAJI	40
6	WAGOLI BHIMASHANKAR BABU	44
7	PAWAR VISHAL VIJAYAKUMAR	40
8	KOLI PRADIP RAMACHANDRA	42
9	PAWAR NILESH SAMPAT	42
10	LAMANI RAHUL RAJU	44
11	BIRADAR CHINMAY BHIMARAY	48
12	GAIKWAD AUDUMBAR DHANAJI	36
13	VAGARE DILIP ANKUSH	34
14	VAGARE YUVRAJ MAHADEV	34
15	BIRAJADAR PRAVIN RAMESH	32
16	BIRAJADAR VINOD MAHADEV	32
17	JADHAV DIVYA GORAKH	26
18	LOKHANDE NIRMALA DONGRIBA	24
19	HIPPARKAR SONALI CHANDRAKANT	26
20	MALI KEDARILING SHRISHAIL	24
21	BHANDARE SAHIL RAJALI	22
22	MALI AKSHATA ASHOK	22
23	BIRADAR LAKKANNA HANAMANT	34
24	SAVANT PRATHMESH ASHOK	36
25	SANADI TOUFIQ SHABBIRGANI	38
26	PANDHARE LAXMAN SHIVAJI	38
27	SHINDE KAJAL PATALU	38
28	BIRADAR SIDDHARAM ASHOK	34



29	BIRADAR RAKESH RAJENDRA	34
30	NADAF ASHIF HUSEN	36
31	BHUSANUR SUDHEER DATTA	46
32	YADAV GHANSHYAM NARENDRA	44
33	KULKARNI RUSHIKESH PRASAD	42
34	JAMDADE RAJ KIRAN	42
35	TELI SHAMBHAVI SHAVANT	46
36	JAYAGOND AVANTIKA ANIL	40
37	BABALAD PARASHURAM SIDDHANNA	26
38	BABALAD BASAVARAJ THAKKAPPA	28
39	AWAJI BEERAPPA MAYAPPA	28
40	SALE BHASKAR BALU	28
41	MANAVAR AJEET RAMADAS	24
42	BUDANUR KASHINATH BALU	24
43	TELSANG ASHISH BHIMRAO	24
44	TAMBOLI KAUSEEN AFJAL	32
45	MANDALE SANTOSH BAPU	32
46	SHAIKH SOHEL SAHEBALAL	34
47	JAMADADE YASHAVANT KRISHNA	24
48	KAYAPURE PRAJWAL SIDRAYA	18
49	BHOSALE RESHMA SATYAPPA	26
50	BHOSALE RAVI MAHADEV	24
51	MATHAPATI MALLIKARJUN GIRAMALLAYYA	44
52	PATIL PRAGATI YUVRAJ	46
53	SALE BHAKTI GAJANAN	48





Shri R. K. Patil Arts, Commerce and Science
College, Sankh.

Department of Commerce



Short-Term Course

Short-Term Course in Basics of IBPS Examination – 2021-22

Students list

Sr.No.	Student Name	Signatures of students	Course Part Name
1	SALUNKHE SANTOSH SOMANING		B.COM
2	BHOSALE SURAJ DILIP		B.COM
3	KODAG SUSHANT ACHYUTRAO		B.COM
4	ATHANIKAR SANDIP MAHADEV		B.COM
5	BORADE PRAJWAL SHIVAJI		B.COM
6	WAGOLI BHIMASHANKAR BABU		B.COM
7	PAWAR VISHAL VIJAYAKUMAR		B.COM
8	KOLI PRADIP RAMACHANDRA		B.COM
9	PAWAR NILESH SAMPAT		B.COM
10	LAMANI RAHUL RAJU		B.COM
11	BIRADAR CHINMAY BHIMARAY		B.COM
12	GAIKWAD AUDUMBAR DHANAJI		B.COM
13	VAGARE DILIP ANKUSH		B.COM
14	VAGARE YUVRAJ MAHADEV		B.COM
15	BIRAJADAR PRAVIN RAMESH		B.COM
16	BIRAJADAR VINOD MAHADEV		B.COM
17	JADHAV DIVYA GORAKH		B.COM
18	LOKHANDE NIRMALA DONGRIBA		B.COM
19	HIPPARKAR SONALI CHANDRAKANT		B.COM
20	MALI KEDARILING SHRISHAIL		B.COM
21	BHANDARE SAHIL RAJALI		B.COM
22	MALI AKSHATA ASHOK		B.COM
23	BIRADAR LAKKANNA HANAMANT		B.COM
24	SAVANT PRATHMESH ASHOK		B.COM
25	SANADI TOUFIQ SHABIRGARI		B.COM



26	PANDHARE LAXMAN SHIVAJI	<i>Pandhare</i>	B.COM
27	SHINDE KAJAL PATALU	<i>S.K.P</i>	B.COM
28	BIRADAR SIDDHARAM ASHOK	<i>Sir</i>	B.COM
29	BIRADAR RAKESH RAJENDRA	<i>Biradar</i>	B.COM
30	NADAF ASHIF HUSEN	<i>N.A.H</i>	B.COM
31	BHUSANUR SUDHEER DATTA	<i>Bhusanur</i>	B.COM
32	YADAV GHANSHYAM NARENDRA	<i>Yadav</i>	B.COM
33	KULKARNI RUSHIKESH PRASAD	<i>Kulkarni</i>	B.COM
34	JAMDADE RAJ KIRAN	<i>Jam</i>	B.COM
35	TELI SHAMBHAVI SHAVANT		B.COM
36	JAYAGOND AVANTIKA ANIL	<i>Jam</i>	B.COM
37	BABALAD PARASHURAM SIDDHANNA	<i>Bab</i>	B.COM
38	BABALAD BASAVARAJ THAKKAPPA	<i>Bab</i>	B.COM
39	AWAJI BEERAPPA MAYAPPA	<i>Awaji</i>	B.COM
40	SALE BHASKAR BALU	<i>Sale</i>	B.COM
41	MANAVAR AJEET RAMADAS	<i>Manav</i>	B.COM
42	BUDANUR KASHINATH BALU	<i>Bud</i>	B.COM
43	TELSANG ASHISH BHIMRAO	<i>Telsang</i>	B.COM
44	TAMBOLI KAUSEEN AFJAL	<i>Tamboli</i>	B.COM
45	MANDALE SANTOSH BAPU	<i>Mandale</i>	B.COM
46	SHAIKH SOHEL SAHEBALAL	<i>Shai</i>	B.COM
47	JAMADADE YASHAVANT KRISHNA	<i>Jam</i>	B.COM
48	KAYAPURE PRAJWAL SIDRAYA	<i>K.P.S</i>	B.COM
49	BHOSALE RESHMA SATYAPPA	<i>Bhosale</i>	B.COM
50	BHOSALE RAVI MAHADEV	<i>Bhosale</i>	B.COM
51	MATHAPATI MALLIKARJUN GIRAMALLAYYA	<i>Math</i>	B.COM
52	PATIL PRAGATI YUVRAJ	<i>Patil</i>	B.COM
53	SALE BHAKTI GAJANAN	<i>Sale</i>	B.COM




Head
 Department of Commerce
 Shri R. K. Patil Arts, Commerce
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 Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Autonomous (Self-Financed) Short Term Course

in

"Mushroom Cultivation"

Organized by

Department of Botany

Shri S.B. Patil

Head and Course Co-ordinator

Department of Botany

2020-2021



॥ Dhairyam Sarvatra Sadhanam ॥

Shri Shivalingeshwar Shiksan Sanstha's Sankh

**Shri R. K. Patil Arts, Commerce and Science College,
Sankh.**

**Certificate Course
In
MUSHROOM CULTIVATION**



**Department of Botany,
Shri RK Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli**





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Ref.No.

:06/12/2020

Date

To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course in
Mushroom Cultivation

Respected sir,

With the reference to above subject, our Botany department is going to
conduct certificate course in Certificate Course of **Mushroom Cultivation** for
B. Sc. Students in this year academic year (2020-21). So, I request you to give
us permission to conduct above said course.

Thanking you,


Yours Faithfully

Department of Botany,
Shri R K Patil Arts, Commerce & Science College Sankh,
Tal-Jath, Dist-Sangli
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Granted
06/12/20





Department of Botany Short Term Course:

"Mushroom Cultivation"

2020-2021

THEORY SYLLABUS

UNIT-1: (6 Lectures)

Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible); Nutritional values of mushrooms, Scope for large scale cultivation, Different cuisines by using mushroom

UNIT-2: (6 Lectures)

Methodology for mushroom cultivation: Preparation of Spawn (grain spawn and straw spawn); Preparation of mushroom bed; Spawning of mushroom bed; Watering of mushroom bed; Harvesting of mushroom

UNIT-3: (6 Lectures)

Harvest and Post-Harvest Handling:

Precautions for mushroom Harvesting, Grading, Post-harvest techniques and storage

UNIT-4: (2 Lectures)

Need for the mass cultivation; Market status of mushroom; Different marketing strategies





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Department of Botany Short Term Course: "Mushroom Cultivation"

(2020-2021)

LIST OF PRACTICALS

Practical 1. Study of Classification of Mushroom

Practical 2. Study of preparation of Spawn (grain spawn and straw spawn)

Practical 3. Study of technique of mushroom culture on bed

Practical 4. Study of harvesting methods of mushroom

Practical 5. Study of different food preparations from edible mushroom

Practical 6. Study of Grading; drying; storage methods





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To

M.S. MALI

HOD of Botany Department ,

Arts, Commerce and Science College Umadi

A/P- Umadi , Tal- Jath

Subject: Invitation as a resource person for certificate course in
"Mushroom Cultivation"

Respected Sir ,

I am pleased to invite you to conduct certificate course in
"Mushroom Cultivation" for academic 2019-20 under Department of Botany from
Date 12/12/2020to 12/02/2021.

We look forward your presence and guidance

Thanking you


your faithfully

Head

Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Department of Botany Short Term Course: "Mushroom Cultivation"
(2020-2021)

SYLLABUS DISTRIBUTION FOR THEORY AND PRACTICALS

Lectures: 30 (Theory: 20 and Practical: 10)

Sr. No	Theory	Faculty
1.	Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible), Nutritional values of mushrooms, Need for the mass cultivation, Market status of mushroom, Scope for large scale cultivation	S.B. Patil
2.	Different Practices for mushroom cultivation Preparation of Spawn, Preparation of mushroom bed, spawning of mushroom bed, Watering of mushroom bed, Harvesting of mushroom.	S.S.Rathod
3.	Necessary precautions for mushroom cultivation	S.B. Patil
4.	Post-harvest storage, Different marketing strategies	S.S.Rathod
	Practicals	Name of Faculty
1.	Preparation of Spawn/mushroom bed	S.B. Patil
2.	Culturing of mushroom and watering of bed	S.S.Rathod
3.	Harvesting of mushroom	S.B. Patil
4.	Necessary precautions during harvesting and their storage	S.S.Rathod

Head and Course Co-ordinator

Head

Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





[[Dhairyam Sarvatra Sadhanam]]

Shri Shivalingeshwar Shikshan Sanstha's Sankh
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**Department of Botany Short Term Course: "Mushroom
Cultivation"
(2020-2021)**

**BOS PANEL
INTERNAL EXPERT**

Sr. No.	Name of Faculty	Designation
1.	S.S.Rathod	Head and Course co-ordinator Department of botany
2.	S.B. Patil	Assistant professor Department of botany

External Expert

Sr. No.	Name of Faculty	Designation
01	M.S.MALI	HOD of Botany Department , Arts, Commerce and Science College Umadi A/P- Umadi , Tal- Jath



|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2020-2021)

Time -Table

Time	Day		
2.30-3.30pm	Lecture	Monday (Batch -A)	Thursday (Batch-B)
2.30-3.30pm	Practical	Tuesday (Batch -A)	Friday (Batch-B)



Head
Head
Department of Botany
Shri R.K.Patil Arts, Commerce & Science College
Sankh, Tal. Jath, Dist. Sangli

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Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany

Short Term Course: "Mushroom Cultivation"

2020-2021

Date : 06/12/2019

NOTICE

All the students of B.Sc I are hereby informed that the Department of Botany is conducting a self financed one month Short Course on "Mushroom Cultivation " Intrested students register their names to S.B. Patil before 10 /12/2019.


Head

Department of Botany
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli





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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2020-2021)

Resistration List

Sr No	Name of students
1.	KALE HARISH DNYANU
2.	VHANWAD FIROJ NABISAB
3.	KAMALE MANKESHWAR KANAKDAS
4.	SHINDE RAHUL ARJUN
5.	LONAR KUMAR SANJAY
6.	SHELAR KHANDOBA DADASO
7.	BASARAGI YUVARAJ CHIDANAND
8.	MANAVAR SACHIN BIRAPPA
9.	MADANE PRIYANKA TUKARAM
10.	TELI VAISHNAVI NINGONDA
11.	KOLUR NANDINI BASAVARAJ
12.	DOLTADE POOJA VISHNU
13.	KHADATARE KOMAL SUBHASH
14.	HUGAR DEVENDRA PRABHAKAR
15.	PATIL SHIVANAND RAJKUMAR
16.	GAIKWAD JANHAVI SAMBHAJI
17.	MANE SANJAY SAMBHAJI
18.	NATIKAR NAGARAJ SIDDARAM
19.	MALI PRATIKSHA TAMMANNA
20.	MALI CHANABASU ANAND



Sr No	Name of students
21	KHOT NAVANATH SHIVAJI
22	LONI ROOPALI UMESH
23	PATIL SAGAR SANJAY
24	BASARGI PALLAVI RAMAGONDA
25	MALI PREMA MAHADEV
26	UMARANI GIRISH SURYAKANT
27	NAGARYAL JYOTI MAHADEV
28	MALI AMIT APPASAHEB
29	PATIL MAHESH BHUJINGA
30	BIRADAR NINGAPPA MADAGONDA
31	GADADE NIRAJ MALLIKARJUN
32	DHANAGAR LAYAPPA SHRISHAIL
33	AWATI MANOJ MAHADEV
34	KHOT GANAPATI DHAREPPA
35	BIRADAR SHRUDDHA AMAGOND
36	GEJJI PRAMOD MURAGEPPA
37	PUTHANI ABHISHEKH SUBHAS
38	PATIL PRAKASH SIDDAPPA
39	KHOT NAVANATH SHIVAJI





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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2020-2021)

Attendance for theory

Sr No	Name of students	Dates								
		12 th Dec	16 th Dec	18 th Dec	06 th Jan	08 th Jan	20 th Jan	22 th jan	27 th Jan	
1.	KHOT NAVANATH SHIVAJI	Khot	Khot	Khot	Ab	Khot	Khot	Khot	Khot	
2.	LONI ROOPALI UMESH	Rup	Rup	Rup	Rup	Rup	Rup	Rup	Rup	
3.	PATIL SAGAR SANJAY	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar	
4.	BASARGI PALLAVI RAMAGONDA	Bas	Bas	Bas	Bas	Bas	Bas	Bas	Bas	
5.	MALI PREMA MAHADEV	Prema	Prema	Prema	Prema	Prema	Prema	Prema	Prema	
6.	UMARANI GIRISH SURYAKANT	UGS	UGS	UGS	UGS	Ab	UGS	UGS	UGS	
7.	NAGARYAL JYOTI MAHADEV	Jyoti	Jyoti	Jyoti	Jyoti	Ab	Jyoti	Jyoti	Jyoti	
8.	MALI AMIT APPASAHEB	Amit	Amit	Amit	Amit	Amit	Ab	Amit	Ab	
9.	PATIL MAHESH BHUJINGA	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	
10	BIRADAR NINGAPPA MADAGONDA	Birad	Birad	Birad	Ab	Birad	Birad	Birad	Birad	
11.	GADADE NIRAJ MALLIKARJUN	Niraj	Niraj	Niraj	Niraj	Niraj	Niraj	Niraj	Niraj	
12	DHANAGAR LAYAPPA SHRISHAIL	L.S.D	L.S.D	L.S.D	Ab	Ab	L.S.D	Ab	L.S.D	
13.	AWATI MANOJ MAHADEV	Manoj	Manoj	Manoj	Ab	Manoj	Manoj	Manoj	Manoj	
14.	KHOT GANAPATI DHAREPPA	Khot	Khot	Ab	Khot	Khot	Khot	Khot	Khot	
15.	BIRADAR SHRUDDDHA AMAGOND	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	
16.	GEJI PRAMOD MURAGEPPA	Pram	Pram	Pram	Pram	Pram	Pram	Pram	Pram	
17.	PUTHANI ABHISHEKH SUBHAS	Abhi	Abhi	Abhi	Abhi	Ab	Abhi	Ab	Abhi	
18.	PATIL PRAKASH SIDDAPPA	Pras	Pras	Pras	Pras	Pras	Pras	Pras	Pras	
19.	KHOT NAVANATH SHIVAJI	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot	



Sr No	Name of students	Dates							
		12 th Dec	16 th Dec	18 th Dec	06 th Jan	08 th Jan	20 th Jan	22 th Jan	27 th Jan
20	KALE HARISH DNYANU	H.D.K	H.D.K	H.D.K	H.D.K	H.D.K	H.D.K	H.D.K	H.D.K
21	VHANWAD FIROJ NABISAB	Penal	Penal	Penal	Penal	Penal	Penal	Penal	Penal
22	KAMALE MANKESHWAR KANAKDAS	(Kest)	(Kest)	(Kest)	(Kest)	(Kest)	(Kest)	(Kest)	(Kest)
23	SHINDE RAHUL ARJUN	Penal	Penal	Penal	Ab	Penal	Penal	Ab	Penal
24	LONAR KUMAR SANJAY	Kel		Kel	Kel	Kel	Kel	Kel	Kel
25	SHELAR KHANDOBA DADASO	K.D.S	K.D.S	K.D.S	K.D.S	Ab	K.D.S	K.D.S	K.D.S
26	BASARAGI YUVARAJ CHIDANAND	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27	MANAVAR SACHIN BIRAPPA	Sachin	Sachin	Sachin	Sachin	Ab	Sachin	Sachin	Sachin
28	MADANE PRIYANKA TUKARAM	SK	SK	SK	SK	SK	SK	SK	Ab
29	TELI VAISHNAVI NINGONDA	V.N.T	V.N.T	V.N.T	V.N.T	V.N.T	V.N.T	V.N.T	V.N.T
30	KOLUR NANDINI BASAVARAJ	Brk	Brk	Brk	Brk	Brk	Brk	Brk	Brk
31	DOLTADE POOJA VISHNU	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
32	KHADATARE KOMAL SUBHASH	Komal	Komal	Komal	Komal	Komal	Komal	Ab	Komal
33	HUGAR DEVENDRA PRABHAKAR	Rest	Rest	Rest	Rest	Ab	Rest	Rest	Rest
34	PATIL SHIVANAND RAJKUMAR	Sep	Sep	Ab	Sep	Sep	Sep	Sep	Sep
35	GAIKWAD JANHAVI SAMBHAJI	Jeg	Jeg	Jeg	Jeg	Jeg	Jeg	Jeg	Jeg
36	MANE SANJAY SAMBHAJI	Sanjay	Sanjay	Sanjay	Ab	Sanjay	Sanjay	Sanjay	Sanjay
37	NATIKAR NAGARAJ SIDDARAM	N.N	N.N	N.N	N.N	N.N	N.N	N.N	N.N
38	MALI PRATIKSHA TAMMANNA	Mali	Mali	Ab	Mali	Mali	Mali	Mali	Mali
39	MALI CHANABASU ANAND	Rest	Rest	Rest	Rest	Rest	Ab	Rest	Rest





|| Dhairyam Sarvatra Sadhanam ||
Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Tal.Jath, Dist.Sangli, 416 412. College Code : 616
Estd-19/7/2018(N.G.C.2018/N.M.V/100/18)M.C-4)
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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.CI@unishivaji.ac.in

**Department of Botany Add-On Course: "Mushroom
Cultivation"
2020-2021**

Question paper

Total Marks: 50

Time: 11.00 am-1:00 pm

Date: February 12, 2020

- Instructions:** 1. All questions are compulsory
2. Draw neat and labelled diagrams wherever necessary.
3. Figures to the right indicate full marks.

Q. I Write short notes on any six: (30 Marks)

- Describe the nutritional values and health benefits of mushroom?
- Why there is need for mass cultivation of mushrooms?
- Write in brief about different marketing strategies for mushroom?
- How to differentiate edible and non-edible mushrooms?
- Write a brief note of the preparation of spawn and mushroom bed?
- Need of post-harvest storage for mushrooms.

Q. 2 Long answer questions (Any two). (20 Marks)

- What are the different practices for mushroom cultivation?
- What are the necessary precautions for mushroom cultivation during post-harvest storage?
- What are different nutritional deficiencies in humans and how the consumption of mushroom will helpful; to overcome those deficiencies?





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Department of Botany
Short Term Course: "Mushroom Cultivation"
2020-2021

Attendance for Practicle

Sl No	Name of students	Dates							
		12 th Dec	16 th Dec	18 th Dec	06 th Jan	08 th Jan	20 th Jan	22 th jan	27 th Jan
1.	KALE HARISH DNYANU	H.D.K		H.D.K	H.D.K	Ab	H.D.K	H.D.K	H.D.K
2.	VHANWAD FIROJ NABISAB	Firot	Firot	Firot	Firot	Firot	Firot	Firot	Firot
3.	KAMALE MANKESHWAR KANAKDAS	Kant	Kant	Kant	Ab	Kant	Kant	Kant	Kant
4.	SHINDE RAHUL ARJUN	Rahul	Rahul	Rahul	Rahul	Ab	Rahul	Rahul	Rahul
5.	LONAR KUMAR SANJAY	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.	K.S.
6.	SHELAR KHANDOBA DADASO	K.D.S	K.D.S	K.D.S	K.D.S	K.D.S	Ab	K.D.S	K.D.S
7.	BASARAGI YUVARAJ CHIDANAND	Y.B.	Y.B.	Ab	Y.B.	Y.B.	Y.B.	Y.B.	Y.B.
8.	MANAVAR SACHIN BIRAPPA	Sachin	Sachin	Sachin	Ab	Sachin	Sachin	Sachin	Sachin
9.	MADANE PRIYANKA TUKARAM	P.K.	P.K.	Ab	P.K.	P.K.	P.K.	P.K.	P.K.
10.	TELI VAISHNAVI NINGONDA	V.N.T	V.N.T	V.N.T	Ab	V.N.T	V.N.T	V.N.T	V.N.T
11.	KOLUR NANDINI BASAVARAJ	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Ab	Nandini
12.	DOLTADE POOJA VISHNU	Pooja	Pooja	Pooja	Ab	Pooja	Pooja	Pooja	Pooja
13.	KHADATARE KOMAL SUBHASH	Komal	Komal	Komal	Komal	Komal	Komal	Ab	Komal
14.	HUGAR DEVENDRA PRABHAKAR	Rud	Rud	Rud	Rud	Rud	Rud	Rud	Rud
15.	PATIL SHIVANAND RAJKUMAR	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.	S.P.
16.	GAIKWAD JANHAVI SAMBHAJI	Jag	Jag	Jag	Jag	Jag	Jag	Jag	Jag
17.	MANE SANJAY SAMBHAJI	Sanjay	Sanjay	Ab	Sanjay	Sanjay	Sanjay	Ab	Sanjay
18.	NATIKAR NAGARAJ SIDDARAM	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.	N.N.
19.	MALI PRATIKSHA TAMMANNA	Mali	Mali	Mali	Ab	Mali	Mali	Mali	Mali
20.	MALI CHANABASU ANAND	Cant	Cant	Cant	Cant	Cant	Cant	Cant	Ab



Sl No	Name of students	Dates							
		12 th Dec	16 th Dec	18 th Dec	06 th Jan	08 th Jan	20 th Jan	22 th Jan	27 th Jan
21	KHOT NAVANATH SHIVAJI	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot
22	LONI ROOPALI UMESH	Rof	Rof	Rof	Rof	Rof	Rof	Rof	Rof
23	PATIL SAGAR SANJAY	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar
24	BASARGI PALLAVI RAMAGONDA	Btfr	Btfr	Btfr	Btfr	Btfr	Btfr	Btfr	Btfr
25	MALI PREMA MAHADEV	Rm	Rm	Rm	Rm	Rm	Rm	Rm	Rm
26	UMARANI GIRISH SURYAKANT	UGS	UGS	UGS	UGS	UGS	UGS	UGS	UGS
27	NAGARYAL JYOTI MAHADEV	Jyoti	Jyoti	Jyoti	Jyoti	Ab	Jyoti	Jyoti	Jyoti
28	MALI AMIT APPASAHEB	Amit	Amit	Amit	Amit	Amit		Amit	Amit
29	PATIL MAHESH BHUJINGA	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
30	BIRADAR NINGAPPA MADAGONDA	Bm	Bm	Bm	Bm	Bm	Bm	Bm	Bm
31	GADADE NIRAJ MALLIKARJUN	Niraj	Niraj	Niraj	Niraj	Niraj	Niraj	Niraj	Niraj
32	DHANAGAR LAYAPPA SHRISHAIL	L.S.D	L.S.D	L.S.D	L.S.D	L.S.D	L.S.D	L.S.D	L.S.D
33	AWATI MANOJ MAHADEV	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
34	KHOT GANAPATI DHAREPPA	Kgd	Kgd	Kgd	Kgd	Kgd	Kgd	Kgd	Kgd
35	BIRADAR SHRUDHA AMAGOND	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub
36	GEJJI PRAMOD MURAGEPPA	Pmg	Pmg	Pmg	Pmg	Pmg	Pmg	Pmg	Pmg
37	PUTHANI ABHISHEKH SUBHAS	Abhi	Abhi	Abhi	Abhi	Abhi	Abhi	Abhi	Abhi
38	PATIL PRAKASH SIDDAPPA	Rp	Rp	Rp	Rp	Rp	Rp	Rp	Rp
39	KHOT NAVANATH SHIVAJI	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot





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Add-on Certificate Course

On

Sericulture



Organised by

Department of Zoology

Course incharge

Mr.Mali.G.S

Course duration- 1 Jan 2019 to 5 Feb 2020



INDEX

Add-on certificate course on sericulture

Year 2019-2020

Sr.no.	Content
1.	Permission Letter
2.	Notice
3.	Syllabus
4.	Objectives and Learning Objectives
5.	Time table
6.	List of participants
7.	Attendance
8.	Question Paper
9.	Certificate





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Ref.No.

Date :20/12/2019

To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangali.416412

Subject: Regarding permission to commencement of certificate Course in
Certificate Course of Sericulture

Respected sir,

With the reference to above subject, our Botany department is going to
conduct certificate course in Certificate Course of **Sericulture** for B. Sc.
Students in this year academic year (2019-20). So, I request you to give us
permission to conduct above said course.

Thanking you,


Yours Faithfully

Department of Zoology,
Shri RK Patil ACS College Sankh,
Tal- Sankh,Dist-Sangli



Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Notice

Date-26-12-2019

All students of B.sc-I and II are here by informed that Department has organised " Add-on Certificate Course on Sericulture" from 28-12-2019. All students are informed that they should remain present for course on time. It may clearly noted that will be collected from absent students.




Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Title- Add on Certificate Course on Sericulture.

Total Hrs.30

Theory

- Life cycle of Bombyx mori-Morphology of egg,larva,pupa, and adult of Bombyx mori.
- Morphology and Anatomical structure of Silk gland.
- Rearing house:Location,orientation ,plan and utilities; model rearing house;low-cost rearing house.
- Chawki rearing:Preparation; brushing and its methods;types of chawki rearing traditional and improved method ;optimum environmental conditons; methods and frequency of feeding,methods of bed cleaning spacing;moulting and care during moult.
- Late age silkworm rearing :Methods;optimum environmental condition ;methods andfrequency of feeding;methods of bed cleaning;Spacing;moultingcare during moult.
- Brushing : Methods ;chwki rearing ;use of paraffin paper andblue polytene sheet.Bed cleaning;use of bed cleaning net and disposal of bed refuses and silkworm litter.
- Moulting: Identification of moultinglarva, care during moulting:moulting density; harvesting of cocoons; assessmentof cocoons types of mountages;Maintanance of records for silkworm rearing.
- Introduction; Classification of silkworm disease.

Practicals

- Study of life cycle of Silkworm
- Choking of silkworm





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Department of Zoology

Year:2019-20

Add-on Certificate Course

On

Sericulture

Objectives:

- On completing the Sericulture course, students will be able to understand overall aspects of Sericulture, namely, Mulberry and non-mulberry silkworms and their food plants, Rearing of the silkworm pathology, Process of silkworm seed production and silk technology.
- This course creates awareness among about the economic importance and suitability of sericulture in Indian conditions.
- Students will get hands on training on Mulberry nursery management, Silkworm rearing, and Silk reeling.
- Employing self employment and entrepreneurship among youths.

Learning Outcomes:

- Understand concepts of sericulture industry and demonstrate interdisciplinary skills acquired in mulberry plant cultivation, silkworm rearing, diagnosis of diseases and pest of mulberry and silkworm and their prevention and its Seri-farmers livelihood.
- Demonstrate the Laboratory and field skills in mulberry cultivation and silkworm rearing with emphasis on technological aspects..
- Competent to transfer the knowledge and technical skills to the Seri-farmers.
- Critically analyse the environmental issues and apply in management of mulberry garden and silkworm rearing at field.





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Department of Zoology

Year: 2019-2020

Add-on Certificate Course

On

Sericulture

Time Table- 2019-20

Theory and Practical

Time	Mon	Tues	Wed	Thurs	Fri	Sat
1.30-2.15 Theory	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S
2.30-4.30 Practical	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S



Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
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Add-on Certificate Course On Sericulture

Sr.no.	Name of the students
1.	NAVI MAMATA DASHARATH
2.	THOMBARE VASANT SHAMRAO
3.	CHOUGULE AKSHAY MAHADEV
4.	KHANDEKAR AJAYKUMAR BASANNA
5.	SHAIKH AJAN VAJIR
6.	MOTE SAGAR BIRU
7.	MOTE SUNIL KRISHNA
8.	SANADI ROHIT RAJENDRA
9.	KOLUR SHREELAKSHMI BASAGOND
10.	KOLUR AMBIKA BASAGOND
11.	KHOT MUKTA SHIVAJI
12.	KARAPE DHULADEV TUKARAM
13.	BIRADAR POOJA HANAMANT
14.	DESAI RANI AVADUT
15.	KORE SIDDHANING MAHADEV
16.	KALLI VIKAS RAJENDRA
17.	VAGOLI SAKSHI RAMAGONDA
18.	AIHOLE ROHINI RAVASAHEB
19.	GADADE SHRUTI MALLIKARJUN
20.	BIRADAR SHRUTI APPASAHEB
21.	MULLA MINAJ IMAM
22.	NATIKAR PALLAVI SURESH
23.	DALWAI TANUJA ANNAPPA





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Department of Zoology

Year: 2019-2020

Add-on Certificate Course On Sericulture

Attendance sheet

Sr.no	Name of the students	1 Jan	2 Jan	3 Jan	4 Jan	6 Jan	7 Jan	8 Jan	9 Jan	10 Jan	11 Jan	13 Jan	14 Jan
1	NAVI MAMATA DASHARATH	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
2	THOMBARE VASANT SHAMRAO	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
3	CHOUGULE AKSHAY MAHADEV	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
4	KHANDEKAR AJAYKUMAR BASANNA	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
5	SHAIKH AJAN VAJIR	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
6	MOTE SAGAR BIRU	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
7	MOTE SUNIL KRISHNA	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
8	SANADI ROHIT RAJENDRA	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
9	KOLUR SHREELAKSHMI BASAGOND	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
10	KOLUR AMBIKA BASAGOND	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
11	KHOT MUKTA SHIVAJI	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
12	KARAPE DHULADEV TUKARAM	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
13	BIRADAR POOJA HANAMANT	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
14	DESAI RANI AVADUT	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
15	KORE SIDDHANING MAHADEV	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD
16	KALLI VIKAS RAJENDRA	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD



17	VAGOLI SAKSHI RAMAGONDA	Vagoli	Vagoli	Vagoli	Vagoli	Ab	Vagoli	Vagoli	Vagoli	Vagoli	Ab	Vagoli	Vagoli
18	AIHOLE ROHINI RAVASAHEB	Aihole	Aihole	Ab	Aihole	Aihole	Aihole	Aihole	Aihole	Ab	Aihole	Ab	
19	GADADE SHRUTI MALLIKARJUN	Gadade	Gadade	Gadade	Gadade	Gadade	Gadade	Gadade	Gadade	Gadade	Ab	Gadade	Gadade
20	BIRADAR SHRUTI APPASAHEB	Biradar	Ab	Shruti	Ab	Shruti	Shruti	Shruti	Ab	Shruti	Shruti	Shruti	Ab
21	MULLA MINAJ IMAM	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla
22	NATIKAR PALLAVI SURESH	Natikar	Pallavi	Pallavi	Ab	Pallavi	Pallavi	Pallavi	Ab	Pallavi	Pallavi	Pallavi	Pallavi
23	DALWAI TANUJA ANNAPPA	Dalwai	Ab	Dalwai	Dalwai	Dalwai	Dalwai	Dalwai	Ab	Dalwai	Dalwai	Dalwai	Dalwai



Shri.R.K.Patil Arts,Commerce and Science College ,Sankh

Department of Zoology

Question Paper

Add-on Certificate Course On Sericulture.

Marks:30

Instructions

- 1.All the questions are compulsory.
- 2.Questions to the right indicate full marks.
- 3.Draw neat and labelled diagrams wherever necessary.

Q.1 .Long questions.[any2]

20

- a.Describe in details life cycle of Bombyx mori.
- b.Explain in brief Silkworm fungal diseases.
- c.Explain Chouki rearing

Q.2.Write short notes on following[any2]

10

- a.Silkworm
- b.Types of moutages
- c.Moulting in silkworm



SHIVALINGESHWAR SHIKSHAN SANSTHA

SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE
COLLEGE SANKH

TAL - JATH DIST- SANGLI.

(Affiliated to Shivaji University, Kolhapur)

GRADUATE DEPARTMENT OF Zoology



CERTIFICATE

This is to Certify that *Mr. /Ms. Kalli..Vikas..Rajendra* has successfully completed the "Sericulture" at graduate Department of Zoology in *first class* in the academic year 2019- 20

Co-ordinator

I/C Principal

Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

I/c. Principal,

Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



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Autonomous (Self-Financed) Short Term Course

In

"Mushroom Cultivation"

Organized by

Department of Botany

Smt: Shri S.B. Patil

Head and Course Co-ordinator

Department of Botany

2019-2020



॥ Dhairyam Sarvatra Sadhanam ॥

Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh.

Certificate Course
In
MUSHROOM CULTIVATION



Department of Botany,
Shri RK Patil ACS College Sankh,
Tal- Sankh Dist-Sangli





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PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.CI@unishivaji.ac.in

Ref.No.

Date :06/12/2019

To,

The Principal,

Shri. R.K.P. Art, Commerce

and Science College, Sankh.

Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course
Mushroom Cultivation

Respected sir,

With the reference to above subject, our Botany department is going to conduct certificate course in Certificate Course of **Mushroom Cultivation** for B. Sc. Students in this year academic year (2019-20). So, I request you to give us permission to conduct above said course.

Thanking you,

Yours Faithfully

Department of Botany,
Shri R K Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli

Sanctioned
06/12/19



Patil

Head

Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Department of Botany Short Term Course: "Mushroom Cultivation"

(2019-2020)

THEORY SYLLABUS

UNIT-1:

(6 Lectures)

Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible); Nutritional values of mushrooms, Scope for large scale cultivation, Different cuisines by using mushroom

UNIT-2:

(6 Lectures)

Methodology for mushroom cultivation: Preparation of Spawn (grain spawn and straw spawn); Preparation of mushroom bed; Spawning of mushroom bed; Watering of mushroom bed; Harvesting of mushroom

UNIT-3:

(6 Lectures)

Harvest and Post-Harvest Handling:

Precautions for mushroom Harvesting, Grading, Post-harvest techniques and storage

UNIT-4:

(2 Lectures)

Need for the mass cultivation; Market status of mushroom; Different marketing strategies





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Department of Botany Short Term Course: "Mushroom Cultivation"

(2019-2020)

LIST OF PRACTICALS

Practical 1. Study of Classification of Mushroom

Practical 2. Study of preparation of Spawn (grain spawn and straw spawn)

Practical 3. Study of technique of mushroom culture on bed

Practical 4. Study of harvesting methods of mushroom

Practical 5. Study of different food preparations from edible mushroom

Practical 6. Study of Grading; drying; storage methods





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To

M.S. MALI

HOD of Botany Department,

Arts, Commerce and Science College Umadi

A/P- Umadi, Tal- Jath


Subject: Invitation as a resource person for certificate course in
"Mushroom Cultivation"

Respected Sir,

I am pleased to invite you to conduct certificate course in "Mushroom Cultivation" for academic 2019-20 under Department of Botany from Date 12/12/2019 to 12/02/2020.

We look forward your presence and guidance

Thanking you


Your faithfully
Department of Botany
R. K. Patil Arts, Commerce
Science College, Sankh
Tal. Jath, Dist. Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Department of Botany Short Term Course: "Mushroom Cultivation"
 (2019-2020)

SYLLABUS DISTRIBUTION FOR THEORY AND PRACTICALS

Sr. No	Theory	Faculty
1.	Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible), Nutritional values of mushrooms, Need for the mass cultivation, Market status of mushroom, Scope for large scale cultivation	S.B. Patil
2.	Different Practices for mushroom cultivation Preparation of Spawn. Preparation of mushroom bed, spawning of mushroom bed, Watering of mushroom bed, Harvesting of mushroom.	S.B. Patil
3.	Necessary precautions for mushroom cultivation	S.B. Patil
4.	Post-harvest storage, Different marketing strategies	S.B. Patil
	Practicals	Name of Faculty
1.	Preparation of Spawn/mushroom bed	S.B. Patil
2.	Culturing of mushroom and watering of bed	S.B. Patil
3.	Harvesting of mushroom	S.B. Patil
4.	Necessary precautions during harvesting and their storage	S.B. Patil

Lectures: 30 (Theory: 20 and Practical: 10)

Patil
 Course Co-ordinator

HOD



Patil
 Head
 Department of Botany
 Shri R. K. Patil Arts, Commerce
 & Science College, Sankh
 Tal. Jath, Dist. Sangli



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Department of Botany Short Term Course

"Mushroom Cultivation"

(2019-2020)

BOS PANEL

INTERNAL EXPERT

Sr. No.	Name of Faculty	Designation
1.	S.B. Patil	Head and Course co-ordinator Department of botany

External Expert

Sr. No.	Name of Faculty	Designation
01	M.S.MALI	HOD of Botany Department, Arts, Commerce and Science College Umadi A/P- Umadi , Tal- Jath



Patil SB
Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2019-2020)

Time -Table

Time	Day		
2.30-3.30pm	Lecture	Monday (Batch -A)	Thursday (Batch-B)
2.30-3.30pm	Practical	Tuesday (Batch -A)	Friday (Batch-B)



Patil SB
Head

Department of Botany
Shri R. K. Patil Arts, Commerce
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Tal, Jath, Dist. Sangli



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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2019-2020)

Date : 06/12/2019

NOTICE

All the students of B.Sc I are hereby informed that the Department of Botany is conducting a self-financed one month Short Course on "Mushroom Cultivation" Interested students register their names to S.B. Patil before 10 /12/2019.

Head



Patil SB
Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



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Department of Botany

Short Term Course: "Mushroom Cultivation"

(2019-2020)

Registration List

Sr No	Name of students
1.	DALWAI TANUJA ANNAPPA
2.	NIKAM JAYAVANT RAMACHANDRA
3.	DASHAL ARUN VIDYANAND
4.	MALI HANAMANT MAHADEV
5.	SHIVSHARAN RAKESH UTTAM
6.	DARGUDE SUNIL BIRA
7.	SHIROL RAHUL BABASAHEB
8.	SHIROL VISHAL CHANDRAKANT
9.	KHOT KOMAL NAMDEO
10.	NATIKAR SUPRITA RAMAPPA
11.	TAMBE PUTALAPPA PARAMESHWAR
12.	REBAGOND MALLESH BASAGOND
13.	KADAM PRANAV DILIP
14.	UDAGERI CHANDRASHEKHAR MALLIKARJUN
15.	KODAG LAKHAN MADHU
16.	JADHAV AMOL DATTARAM
17.	INDI RAVIKANT RAJENDRA
18.	KAMBLE ROOPALI SOPAN
19.	NILE AMOL PRAKASH
20.	SALUNKHE SIDDHESHWAR MAHADEV



Sr No	Name of students
21	VHANWADE SATISH BASU
22	SARAGAR RAJAT BABAN
23	KAVANDI SHRISHAL SHANKAR
24	SAWANT AMOL DADASO
25	KUMBAR RAGHAVENDRA RAJENDRA
26	DINDUR SHIVAKUMAR SHARANAPPA
27	HIREMATH PUSHPA RADDAYYA
28	BIRADAR BHAGYASHRI RAMAGONDA
29	KHOT TUKARAM AVADUT
30	MOTE SURESH RAJU
31	PATIL PRAVIN TAYAPPA
32	MUDAGOUDAR AKSHAYKUMAR SHANKARGOUD
33	PUJARI KAVITA KALLAPPA
34	ARALI ROHINI SHRISHAIL
35	KOLI MALLIKARJUN RAMANNA
36	BHUSNUR SUNIL LAHAYAPPA
37	SONAVANE AKSHATA BHMASHANKAR
38	VHANWADE SATISH BASU
39	SARAGAR RAJAT BABAN





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2019-2020)

Attendance for Practice

Sr No	Name of students	Dates							
		12 th Dec	16 th Dec	18 th Dec	06 th Jan	08 th Jan	20 th Jan	22 th Jan	27 th Jan
1.	DALWAI TANUJA ANNAPPA	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja	Tanuja
2.	NIKAM JAYAVANT RAMACHANDRA	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
3.	DASHAL ARUN VIDYANAND	D.R.V	D.R.V	D.R.V	D.R.V	D.R.V	D.R.V	D.R.V	D.R.V
4.	MALI HANAMANT MAHADEV	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali
5.	SHIVSHARAN RAKESH UTTAM	SRV	SRV	SRV	Ab	SRV	SRV	SRV	SRV
6.	DARGUDE SUNIL BIRA	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B	D.S.B
7.	SHIROL RAHUL BABASAHEB	Shirol	Shirol	Ab	Shirol	Shirol	Shirol	Shirol	Shirol
8.	SHIROL VISHAL CHANDRAKANT	Shirol	Shirol	Shirol	Shirol	Shirol	Shirol	Shirol	Shirol
9.	KHOT KOMAL NAMDEO	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot
10.	NATIKAR SUPRITA RAMAPPA	Natikar	Natikar	Natikar	Ab	Natikar	Natikar	Natikar	Natikar
11.	TAMBE PUTALAPPA PARAMESHWAR	Tambe	Tambe	Tambe	Tambe	Tambe	Tambe	Tambe	Ab
12.	REBAGOND MALLESH BASAGOND	Rg	Ab	Rg	Rg	Ab	Rg	Rg	Rg
13.	KADAM PRANAV DILIP	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
14.	UDAGERI CHANDRASHEKHAR MALLIKARJUN	Udageri	Udageri	Udageri	Ab	Udageri	Udageri	Udageri	Udageri
15.	KODAG LAKHAN MADHU	Kodag	Kodag	Kodag	Ab	Kodag	Kodag	Ab	Kodag
16.	JADHAV AMOL DATTARAM	J.D	J.D	J.D	J.D	J.D	J.D	J.D	J.D
17.	INDI RAVIKANT RAJENDRA	Indi	Indi	Ab	Indi	Indi	Indi	Indi	Indi
18.	KAMBLE ROOPALI SOPAN	Kam	Kam	Kam	Kam	Ab	Ab	Ab	Kam
19.	NILE AMOL PRAKASH	Nile	Nile	Nile	Nile	Nile	Nile	Nile	Ab
20.	SALUNKHE SIDDHESHWAR MAHADEV	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal



Sr No	Name of students	Dates							
		12 th Dec	16 th Dec	18 th Dec	06 th Jan	08 th Jan	20 th Jan	22 th Jan	27 th Jan
21	VHANWADE SATISH BASU	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B
22	SARAGAR RAJAT BABAN	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B
23	KAVANDI SHRISHAL SHANKAR	K.S.S	K.S.S	K.S.S	K.S.S	K.S.S	K.S.S	K.S.S	K.S.S
24	SAWANT AMOL DADASO	S.A.D	S.A.D	S.A.D	S.A.D	S.A.D	S.A.D	S.A.D	S.A.D
25	KUMBAR RAGHAVENDRA RAJENDRA	K.R.R	K.R.R	K.R.R	K.R.R	K.R.R	K.R.R	K.R.R	K.R.R
26	DINDUR SHIVAKUMAR SHARANAPPA	D.S.S	D.S.S	Ab	Ab	D.S.S	Ab	D.S.S	Ab
27	HIREMATH PUSHPA RADDAYYA	H.P.R	H.P.R	H.P.R	H.P.R	H.P.R	H.P.R	H.P.R	H.P.R
28	BIRADAR BHAGYASHRI RAMAGONDA	B.B.R	B.B.R	B.B.R	B.B.R	B.B.R	B.B.R	B.B.R	B.B.R
29	KHOT TUKARAM AVADUT	K.T.A	K.T.A	K.T.A	K.T.A	K.T.A	K.T.A	K.T.A	K.T.A
30	MOTE SURESH RAJU	M.S.R	M.S.R	M.S.R	M.S.R	M.S.R	M.S.R	M.S.R	M.S.R
31	PATIL PRAVIN TAYAPPA	P.P.T	P.P.T	P.P.T	P.P.T	Ab	P.P.T	Ab	P.P.T
32	MUDAGAUDAR AKSHAYKUMAR SHANKARGOUD	M.A.S	M.A.S	M.A.S	M.A.S	M.A.S	M.A.S	M.A.S	M.A.S
33	PUJARI KAVITA KALLAPPA	P.K.K	P.K.K	P.K.K	P.K.K	P.K.K	P.K.K	P.K.K	P.K.K
34	ARALI ROHINI SHRISHAIL	A.R.S	A.R.S	A.R.S	A.R.S	A.R.S	A.R.S	A.R.S	A.R.S
35	KOLI MALLIKARJUN RAMANNA	K.M.R	K.M.R	K.M.R	K.M.R	K.M.R	K.M.R	K.M.R	K.M.R
36	BHUSNUR SUNIL LAHAYAPPA	B.S.L	B.S.L	Ab	B.S.L	B.S.L	Ab	B.S.L	B.S.L
37	SONAVANE AKSHATA BHMASHANKAR	S.A.B	S.A.B	S.A.B	S.A.B	S.A.B	S.A.B	S.A.B	S.A.B
38	VHANWADE SATISH BASU	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B	V.S.B
39	SARAGAR RAJAT BABAN	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B





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 (2019-2020)

Attendance for theory

Sr No	Name of students	Dates								
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2.	SARAGAR RAJAT BABAN	Raj.R	Raj.R	Raj.R	Raj.R	Raj.R	Raj.R	Raj.R	Raj.R	
3.	KAVANDI SHRISHAL SHANKAR	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	
4.	SAWANT AMOL DADASO	Am.S	Am.S	Am.S	Am.S	Am.S	Am.S	Am.S	Am.S	
5.	KUMBAR RAGHAVENDRA RAJENDRA	Ra.R	Ra.R	Ra.R	Ra.R	Ra.R	Ra.R	Ra.R	Ra.R	
6.	DINDUR SHIVAKUMAR SHARANAPPA	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	Sh.S	
7.	HIREMATH PUSHPA RADDAYYA	Pu.R	Pu.R	Pu.R	Pu.R	Pu.R	Pu.R	Pu.R	Ab	
8.	BIRADAR BHAGYASHRI RAMAGONDA	B.R	B.R	B.R	B.R	B.R	B.R	B.R	B.R	
9.	KHOT TUKARAM AVADUT	Tu.R	Tu.R	Tu.R	Tu.R	Tu.R	Tu.R	Tu.R	Tu.R	
10.	MOTE SURESH RAJU	M.S.R	M.S.R	M.S.R	Ab	M.S.R	M.S.R	M.S.R	M.S.R	
11.	PATIL PRAVIN TAYAPPA	Pr.P	Ab	Pr.P	Pr.P	Pr.P	Pr.P	Pr.P	Pr.P	
12.	MUDAGAUDAR AKSHAYKUMAR SHANKARGOUD	M.A.S	M.A.S	M.A.S	M.A.S	M.A.S	M.A.S	Ab	M.A.S	
13.	PUJARI KAVITA KALLAPPA	Ka.P	Ab	Ka.P	Ka.P	Ka.P	Ka.P	Ka.P	Ka.P	
14.	ARALI ROHINI SHRISHAIL	Ra.S	Ra.S	Ra.S	Ra.S	Ra.S	Ab	Ab	Ab	
15.	KOLI MALLIKARJUN RAMANNA	Ko.L	Ko.L	Ko.L	Ko.L	Ko.L	Ab	Ko.L	Ko.L	
16.	BHUSNUR SUNIL LAHAYAPPA	Su.L	Su.L	Su.L	Su.L	Su.L	Su.L	Su.L	Su.L	
17.	SONAVANE AKSHATA BHMASHANKAR	So.A	So.A	So.A	So.A	So.A	So.A	So.A	So.A	
18.	VHANWADE SATISH BASU	V.S.B	V.S.B	V.S.B	V.S.B	Ab	V.S.B	V.S.B	V.S.B	
19.	SARAGAR RAJAT BABAN	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	S.R.B	



Sr No	Name of students	Dates							
		12 th Dec	16 th Dec	18 th Dec	06 th Jan	08 th Jan	20 th Jan	22 th jan	27 th Jan
1.	DALWAI TANUJA ANNAPPA	Tanuja	Tanuja	Tanuja	Ab	Tanuja	Tanuja	Ab	Ab
2.	NIKAM JAYAVANT RAMACHANDRA	Nikam	Nikam	Nikam	Nikam	Nikam	Nikam	Nikam	Nikam
3.	DASHAL ARUN VIDYANAND	Dasi	Dasi	Dasi	Dasi	Dasi	Dasi	Dasi	Dasi
4.	MALI HANAMANT MAHADEV	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali
5.	SHIVSHARAN RAKESH UTTAM	SRV	Ab	SRV	Ab	SRV	SRV	SRV	SRV
6.	DARGUDE SUNIL BIRA	D.SB	DSB		DSB	DSB	DSB	DSB	D.SB
7.	SHIROL RAHUL BABASAHEB	Shirol	Ab	Shirol	Shirol	Shirol	Shirol	Shirol	Shirol
8.	SHIROL VISHAL CHANDRAKANT	Shirol	Shirol	Shirol	Shirol	Shirol	Shirol	Ab	Shirol
9.	KHOT KOMAL NAMDEO	Khot	Khot	Khot	Khot	Khot	Khot	Khot	Khot
10.	NATIKAR SUPRITA RAMAPPA	Natkar	Natkar	Natkar	Natkar	Natkar	Natkar	Ab	Natkar
11.	TAMBE PUTALAPPA PARAMESHWAR	Tambe	Tambe	Tambe	Tambe	Tambe	Tambe	Tambe	Ab
12.	REBAGOND MALLESH BASAGOND	Rb	Rb	Rb	Rb	Rb	Rb	Rb	Rb
13.	KADAM PRANAV DILIP	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Ab
14.	UDAGERI CHANDRASHEKHAR MALLIKARJUN	Udageri	Udageri	Udageri	Udageri	Udageri	Udageri	Udageri	Ab
15.	KODAG LAKHAN MADHU	Kodag	Kodag	Kodag	Kodag	Ab	Kodag	Ab	Kodag
16.	JADHAV AMOL DATTARAM	JAD	JAD	JAD	JAD	JAD	JAD	JAD	JAD
17.	INDI RAVIKANT RAJENDRA	Indi	Indi	Ab	Ab	Indi	Ab	Indi	Indi
18.	KAMBLE ROOPALI SOPAN	Kam	Kam	Kam	Kam	Kam	Kam	Ab	Kam
19.	NILE AMOL PRAKASH	Nile	Nile	Nile	Nile	Nile	Nile	Ab	Ab
20.	SALUNKHE SIDDHESHWAR MAHADEV	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany Add-On Course

"Mushroom Cultivation"

(2019-2020)

Question paper

Total Marks: 50

Time: 11.00 am-1:00 pm

Date: February-12-2020

- Instructions:** 1. all questions are compulsory
2. Draw neat and labeled diagrams wherever necessary.
3. Figures to the right indicate full marks.

Q. I Write short notes on any six:

(30 Marks)

- Describe the nutritional values and health benefits of mushroom?
- Why there is need for mass cultivation of mushrooms?
- Write in brief about different marketing strategies for mushroom?
- How to differentiate edible and non-edible mushrooms?
- Write a brief note of the preparation of spawn and mushroom bed?
- Need of post-harvest storage for mushrooms.

Q. 2 Long answer questions (Any two).

(20 Marks)

- What are the different practices for mushroom cultivation?
- What are the necessary precautions for mushroom cultivation during post-harvest storage?
- What are different nutritional deficiencies in humans and how the consumption of mushroom will helpful; to overcome those deficiencies?



॥ Dhairyam Sarvatra Sadhanam ॥
Shri Shivalingeshwar Shiksan Sanstha's Sankh

Shri R. K. Patil Arts, Commerce and Science College, Sankh.

Certificate Course

In

“Soil and Water Analysis”



**Department of Chemistry,
Shri RK Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli**



|| Dhairyam Sarvatra Sadhanam ||

Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

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Department Of Chemistry Index

Sr. No	Name of the documents
1	Brochure
2	Permission letter
3	Meeting Notice
4	Minute Meeting Notice
5	Notice
6	Time Table
7	Syllabus
8	Registration
9	Question paper
10	Model Answer Key
11	Result Analysis
12	Attendance
13	Feedback
14	Report
15	Out Come
16	Certificate



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CERTIFICATE COURSE

"Soil and Water Analysis"

Introduction

The leaf analysis laboratory of the Division of Soil Science and Agricultural Chemistry, ICAR-IHR, Bengaluru is extending the soil, plant/leaf, irrigation water, manure/compost analysis facility to the farming community and company/firm. The main objective of the activity is to receive samples from individual farmers and company/firm and to analyze the samples for their nutritional status. Based on which the nutrient application through fertilizers and manures to meet the crop specific needs are recommended for better soil health management and enhancing economic return to farmers / clients.

Benefits

- Test
- Practical training
- Certificate
- One Month
- Conceptual discussion

For B.Sc. III Chemistry Students

[Signature]

Head

Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



[Signature]
I/c. Principal,

Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



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Ref.No.

Date: 20/12/2021

To,

The Principal,

Shri. R.K.P. Art, Commerce

and Science College, Sankh.

Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course in
Soil and Water Analysis.

Respected sir,

With the reference to above subject, our Chemistry department is going to conduct certificate course in Certificate Course of Soil and Water Analysis for B.Sc. Students in this year academic year (2021-22). So, I request you to give us permission to conduct above said course.

Thanking you,


Yours Faithfully

Department of Chemistry,

Shri RK Patil ACS College Sankh,

Tal- Sankh,Dist-Sangli

Head

Department of Chemistry

Shri. R. K. Patil Arts, Commerce

& Science College, Sankh

Tal. Jath, Dist. Sangli



Sanctioned
Paleo
20/12/21



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Graduate Department of Chemistry

CERTIFICATE COURSE Soil & Water Analysis

Meeting Notice

The meeting of the members of BOS in certificate course in **Soil and Water Analysis** is conveyed on 21st Dec 2021 for the preparation of syllabus.

Sr. No	Name	Position	Signature
1	Dr.Dalawai S.P	Chairman	
2	Mr.Haladaki A.S	Co-ordinator	
3	Mr.Naik V.H	Member	
4	Mr.Mali P.G	Member	
5	Mr.Biradar R.B	Member	
6	Miss.Wagholi.D.V	Member	

HOD

Head
Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

Department of CHEMISTRY
CERTIFICATE COURSE in Soil and Water Analysis

Academic Year -2021-22

Minutes of Meeting

The meeting of the members of BOS in certificate course in Soil and Water Analysis is held on 22 December 2020 for the preparation of Course syllabus. The following members of present and prepared the syllabus of the above course and submitted to Co-coordinator, Shri R K Patil ACS college Sankh.

Sr. No	Name	Position	Signature
1	I/c Prin.K.S.Biradar	Chairman	
2	Mr.Haladaki A.S	Co-ordinator	
3	Mr.Naik V.M	Member	
4	Mr. Mali P.G	Member	
5	Mr.Biradar R.B	Member	


HOD

Head
Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli




Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

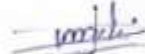
Date: - 24/12/2020

Notice

All of the students of B.Sc are here by informed that, Department of Chemistry going to organized by certificate course in Soil and Water Analysis has been scheduled from 25/12/2021 to 25/02/2022 Kindly, remain present at prescribed time in lecture hall.



Course Co-ordinator



HOD

Head

Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli





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Certificate Course (Soil & Water Analysis)

TIME TABLE 2021-2022

Class	Time	Saturday (25/12/2021) To (25/01/2022)	Monday (27/12/2021) To (27/01/2022)
Theory	01:00pm TO 02:00pm	(A.S Haladaki)	(Haladaki A.S)
Practical	02.30pm To 03.30pm	(Wagholi D.V)	(Wagholi D.V)



(Signature)

Head

Department of Chemistry
R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Soil & Water Analysis

Syllabus

Introduction:

Soil so essential to life on earth is one of the most complicated of materials.¹⁻³ A complex mixture of inorganic and organic solids, liquids, and gases, soil presents a challenging material for analysis,³⁻⁵ especially for researchers who are not specialists in soil chemistry. This clear, broadly applicable reference provides chemists and environmental scientists with the background they need to analyze soil, interpret their findings, and develop new analytical methods for soil. Introduction to soil chemistry will also be valuable to the soil scientist confronting soil analyses. Analysis and instrumentation investigates the most important soil characteristics that impact analysis and the procedures, chemicals, and equipment used to determine the composition and quantity of soil constituents.⁶⁻¹² It also discusses factors that interfere with accurate soil analysis.

Soil Sample Preparation:

Ideally, a soil should be tested without disturbing or altering it chemically or mechanically in the process of sample preparation. This would require testing in situ, which is not technically feasible today. For the convenience of handling and to provide a homogenous mix for subsampling, soil samples are usually dried and pulverized. Subsamples of the dry, pulverized soils are either weighed or measured by volume. Galvanized containers, cast iron mortars, rubber stoppers, brass screens and a variety of other tools can contribute to contamination with iron, zinc and other micronutrients, and should not be used.

Sample handling before analysis can affect soil test results. It has been shown^{13, 23, 26} that drying can result in increased release of exchangeable potassium (K) in many soils and in fixation in others. The fixation tends to occur in recently fertilized soils at higher test levels. The extent of reversion on rewetting varies among soils and is seldom, if ever, complete. Increased temperature can also increase the exchangeable K levels.¹⁶ Dowdy and Hutcheson¹⁷ found that elite was the source of K release on drying and that fixation could be attributed to vermiculite or montmorillonite. Early studies in Iowa²³ showed that the results



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Sample handling before analysis can affect soil test results. It has been shown^{13, 23, 26} that drying can result in increased release of exchangeable potassium (K) in many soils and in fixation in others. The fixation tends to occur in recently fertilized soils at higher test levels. The extent of reversion on rewetting varies among soils and is seldom, if ever, complete. Increased temperature can also increase the exchangeable K levels.¹⁶ Dowdy and Hutcheson¹⁷ found that elite was the source of K release on drying and that fixation could be attributed to vermiculite or montmorillonite. Early studies in Iowa²³ showed that the results



results from air-dried soils. Higher correlations with field-moist samples were also found in there glonal K studies in the late 1950s and early 1960s.^{14,20,21} The K release on drying and the reversion on rewetting can be controlled with organic additives²⁴, but this procedure has not been evaluated in practical soil testing.

Drying and method of drying may also affect the results of the tests for mineralizable nitrogen²², phosphorus²⁵, sulfur^{15, 23,28}, zinc¹⁹ and perhaps other micronutrients, but the correlations between the test results and the uptake of nutrients by plants have not been shown to be significantly affected by drying.

Primarily because of the effect of drying on potassium results, a method of testing undried soil samples was developed and put into use in the Iowa State University Soil Testing Laboratory until 1990. Because of the difficulties of analyzing moist sample sand because most correlation and calibration studies have been done on air-dried soils, the undried soil analysis method has not been adopted widely. The traditional method of preparing dry samples is presented here.

Recommended Procedure for:

Handling Dry Soil Samples:

Traditionally, most soil analysts have considered dry soil as the convenient state from which to start chemical tests. Because soil samples are received in a wide range of physical conditions, a common denominator in preparation is required to all evicted these problems and expedite processing.

Drying:

Moist, well-mixed samples may be transferred to paper bags, cardboard boxes or aluminum trays of convenient size. The open sample container is then placed in a drying rack or cabinet equipped with exhaust fans to expedite air movement and moisture loss. If heat is necessary, the temperature of the cabinet should not exceed 40°C (104°F). This is especially critical for potassium analysis, which can be significantly influenced by drying temperatures. If nitrate analyses are involved, the soil should be dried or frozen within 12 hours of sampling. Such sample scan is dried by spreading them out on a clean paper or cloth and blow drying them with a fan.



soils and for their adaption to use for a large volume of soils. Changes will be made in these procedures from time to time as new method and techniques are developed.

It is not the purpose of this bulletin neither to describe the various methods listed nor to compare them with any other methods in use. There are several books³¹⁻³⁵ and periodicals which devote many pages to the description of procedures involved in testing soils. Where applicable a reference is given to the originator of a particular method.

1. pH:

pH indicates the acidity or alkalinity of soil. A pH of 7 is neutral. Values less than 7 are acidic and values greater than 7 are alkaline. Utah soils tend to be moderately alkaline (pH range 7.5 to 8.5). Most plants grow well in soils with pH values between 6.0 and 8.0. Trace element (e.g., iron) deficiencies can occur in soils with pH values greater than 8.0 and with some sensitive plants (e.g., berries, grapes, silver maple, pin oak) in soils with pH values greater than 7.5.

Procedure:

1. Weigh 10 grams of soil into a 50 ml beaker or No. 250 C.R. soufflé cup.
Add 10 ml of distilled water. Stir thoroughly.
2. Let stand for at least 30 minutes, stirring two or three times.
3. Read with a pH meter using a glass electrode.

2. Phosphorus (P)- Sodium bicarbonate method:

The phosphorus soil test result is in units of parts per million (or ppm), which is equivalent to pounds of available phosphorus per million pounds of soil. The soil test value is a measure of the amount of phosphorus available to plants during the growing season. A very low or low phosphorus test value indicates that additional phosphorus must be applied to prevent a deficiency. An adequate to high soil test value indicates that sufficient phosphorus is available to grow the plants you identified. Very high amounts of phosphorus indicate excessive fertilizer or manure application, and may lead to nutrient imbalances in plants, or negative environmental impacts to nearby water sources.

Procedure:

1. Weigh out 2.5 grams of soil into a 50 ml shaking bottle and add 25 ml extractant. Shake for 30 minutes.



2. If resulting soil solution is colored, decolorize with Darco G-60. Use about 4 teaspoon for each 25 ml extract, or more if necessary.
3. Filter through Whatman No. 5 filter paper. The Darco G-60 may be added to the soil prior to shaking. (The Darco G-60 should be tested for phosphorus and if it contains enough to color the solution, it should be washed with sodium bicarbonate before using.) Place 5 ml of the filtrate in a 25 ml volumetric flask. This can be done with an automatic pipette.
4. With an automatic pipette add 5 ml of ammonium molybdate solution to each flask and shake well. Remove all traces of the molybdate solution from the neck of the flask by washing down with distilled water until approximately 10 ml has been added.
5. Add 1.0 ml of the dilute stannous chloride solution, mix well immediately, and make up to volume with distilled water and again shake thoroughly.
6. Read color intensity in the colorimeter using a 560 mu filter, ten minutes after addition of the stannous chloride solution. Determine amount of phosphorus from curve prepared by running a series of standards.

3. Potassium (K), Calcium (Ca), Magnesium (Mg) - Flame Photometer method:

The potassium soil test value is a measure of the amount of potassium available to plants during the growing season. A very low or low potassium test value indicates that additional potassium must be applied to prevent a deficiency. An adequate or higher soil test value indicates that sufficient potassium will be available for growing the plants you identified. There are no known negative impacts to plants for potassium levels testing high or very high.

Procedure:

1. Weigh or measure 2 grams of soil into a 50 ml shaking bottle, add 20 ml of the ammonium acetate extractant, and shake for 30 minutes.
2. Filter through Whatman No. 5 filter paper.
3. Determine with the flame photometer using the following wave lengths:
 - a. Magnesium - 383 mu (285.2 mu if possible)
 - b. Calcium - 554 mu
 - c. Sodium - 580 mu
 - d. Potassium - 768 mu
4. Prepare a curve for each element by running a series of standards.



4. Organic matter - - Walkley-Black method:

Organic matter provides nutrients such as nitrogen and sulfur for plant growth while improving soiltilth (physical condition). Generally, higher levels of organic matter are desirable. Soil organic matter content also influences the effectiveness and application rate of certain herbicides. Follow the instructions on your herbicide label or contact your local county Extension agent for assistance.

Procedure:

1. Pass soil through a $\frac{1}{2}$ mm sieve and weigh out 0.5 grams soil into a 500 ml Erlenmeyer flask.
2. Add 10 ml potassium dichromate and 20 ml concentrated H_2SO_4 . Mix rapidly and thoroughly for 1 minute. Let stand for at least 20 minutes or until cool.
3. Dilute to 150 ml with water and add 10 ml concentrated H_3PO_4 .
4. Titrate with 0.4 N ferrous-ammonium-sulfates. Use 6 drops o-phenanthroline indicator.
5. Run a blank simultaneously using same procedure.

Calculation:

$$\text{O.M. \%} = \text{ml Fe (NH}_4)_2\text{(SO}_4)_6 \text{ used (Blank - Sample titration)} \times N/0.4 \times 0.545$$

Total Nitrogen - - Kjeldahl method:

Procedure:

1. Weigh out 10 grams of soil and place in an 800 ml Kjeldahl flask.
2. Add 1 teaspoonful (10 grams) of catalyst and 30 ml concentrated H_2SO_4 .
4. Digest until clear (20 to 30 minutes) + one-half clearing time (10 to 15 minutes.) Cool.
5. Meanwhile place a 500 ml Erlenmeyer flask containing 50 ml boric acid solution and 4 drops of indicator under the condenser. Be sure the condenser tube is below the liquid surface.
6. Add 400 ml distilled water, one boiling stone and a small piece of mossy zinc to the Kjeldahl flask.
7. Pour in slowly and carefully down the side of the flask 60 ml of concentrated NaOH. Do not mix at this point.



8. Connect to condenser; then gently rotate solution until the material is thoroughly mixed.
9. Turn on distillation unit burners and distill over approximately 100 ml. Turn off burners and immediately lower the Erlenmeyer flasks.
10. Titrate NH with 0.1000 N H_2SO_4 using the mixed indicator.
11. Run a blank whenever there is a change in reagents or at least once a day.

Calculation:

$$\frac{\text{ml } H_2SO_4 \text{ used (Sample titration - Blank Titration)} \times N \times 0.014 \times 100}{\text{weight of material (grams)}}$$

5. Nitrate – Nitrogen (N):

The most limiting plant nutrient in the soil system. It is required for optimal growth and function for all living things, and hence is in very high demand in terrestrial systems. Annual additions of nitrogen are generally required for optimum growth and performance of any plant and so recommendations are based on annual plant needs rather than soil test levels. For this reason, nitrogen analysis is not included in the routine soil analysis package available through the lab. However, in many instances, especially where large, repeated applications of compost or manure are added to soils, nitrogen dynamics and management can become complex and knowledge of the soil test level is imperative to prevent over application, or loss of nitrogen from the system. If requested, the amount of plant-available nitrogen indicated by the nitrate-nitrogen value in the upper 2 or more feet of soil, normally the sum of 0 to 12 inch and 12 to 24 inch sample depths. The upper 2 feet of soil are used because nitrate-N is mobile and will move through soil with irrigation water or rainfall. Nitrogen recommendations depend on the nitrate-nitrogen soil test value, the crop to be grown or landscape setting (e.g., lawn or garden), yield, and site history (last crop grown, residue removal, and previous applications of nitrogen and/or manure). If a nitrate-nitrogen test was not requested, nitrogen recommendations will be based on the annual need of the crop to be grown, yield, and site history.

Procedure:

1. Shake 10 grams of soil with 50 ml of distilled water for 10 minutes. Add 0.2 gram $Ca(OH)_2$ powder and shake for an additional 5 minutes.



2. Filter and wash with an additional amount of water.
 3. Transfer 5 ml of the filtrate to a 5-ml beaker. Add 1 ml $\text{Ca}(\text{OH})_2$ solution and evaporate to dryness on a warm hot plate. Cool, $\text{Ca}(\text{OH})_2$.
 4. Add 1 ml of phenol disulfonic acid and rotate the beaker so that the acid comes in contact with the entire residue.
 5. Add 14 ml of distilled water and 5 ml of 1:1 ammonium hydroxide solution.
 6. Transfer the solution to a colorimeter tube and read in a colorimeter at 420 mμ.
- Determine the amount of nitrate from curve prepared by running a series of standard solutions.



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Graduate Department of Chemistry

"CERTIFICATE COURSE IN SOIL AND WATER ANALYSIS

Academic Year -2021-22

REGISTRATION

Sr.No.	Student Name
1	PATIL AISHWARYA RAVSAB
2	PATIL MAHESH REVANSHIDHA
3	NAVI MAMATA DASHARATH
4	THOMBARE VASANT SHAMRAO
5	CHOUGULE AKSHAY MAHADEV
6	SHAIKH AJAN VAJIR
7	SANADI ROHIT RAJENDRA
8	KHOT MUKTA SHIVAJI
9	KARAPE DHULADEV TUKARAM
10	BIRADAR POOJA HANAMANT
11	DESAI RANI AVADUT
12	KORE SIDDHANING MAHADEV
13	KALLI VIKAS RAJENDRA
14	VAGOLI SAKSHI RAMAGONDA
15	AIHOLE ROHINI RAVASAHEB
16	BIRADAR SHRUTI APPASAHEB
17	MULLA MINAJ IMAM
18	NATIKAR PALLAVI SURESH
19	DALWAI TANUJA ANNAPPA
20	NIKAM JAYAVANT RAMACHANDRA



21	DASHAL ARUN VIDYANAND
22	MALI HANAMANT MAHADEV
23	DARGUDE SUNIL BIRA
24	SHIROL RAHUL BABASAHEB
25	SHIROL VISHAL CHANDRAKANT
26	KHOT KOMAL NAMDEO
27	NATIKAR SUPRITA RAMAPPA
28	TAMBE PUTALAPPA PARAMESHWAR
29	REBAGOND MALLESH BASAGOND
30	KADAM PRANAV DILIP
31	UDAGERI CHANDRASHEKHAR MALLIKARJUN
32	KODAG LAKHAN MADHU
33	JADHAV AMOL DATTARAM
34	INDI RAVIKANT RAJENDRA
35	KAMBLE ROOPALI SOPAN
36	NILE AMOL PRAKASH
37	SALUNKHE SIDDHESHWAR MAHADEV
38	VHANWADE SATISH BASU
39	SARAGAR RAJAT BABAN
40	SAWANT AMOL DADASO
41	KUMBAR RAGHAVENDRA RAJENDRA
42	DINDUR SHIVAKUMAR SHARANAPPA
43	HIEMATH PUSHPA RADDAYYA
44	BIRADAR BHAGYASHRI RAMAGONDA
45	KHOT TUKARAM AVADUT
46	MOTE SURESH RAJU
47	PATIL PRAVIN TAYAPPA
48	MUDAGOUDAR AKSHAYKUMAR SHANKARGOUD
49	PUJARI KAVITA KALLAPPA
50	ARALI ROHINI SHRISHAIL
51	KOLI MALLIKARJUN RAMANNA

10/01/18
 10/01/18
 10/01/18
 10/01/18



52	BHUSNUR SUNIL LAHAYAPPA
53	SONAVANE AKSHATA BHIMASHANKAR
54	MOTE SAGAR MHALAPPA
55	BIRADAR ANJALI SANGANNA
56	CHAVAN SARASWATI NARAYAN
57	PANDHARE MARAGU BHAGAVAN
58	SOLANKAR SATISH SHRIMANT
59	MALI MAHANTESH DARYAPPA
60	BIRADAR RAKSHITA RAMAGOND
61	SANYAR HARSHAD MAHADEV
62	UMARANI RIZAWANA MIRASAB
63	CHAVAN DHARMARAJ GANGARAM
64	GHAGARE YALLALING PANDURANG
65	KHOT AKSHATA PANDURANG
66	MALI PARSHURAM TAMMANNA
67	KENGAR RAJESHRI BHAGAVAN
68	KOTYAL MAHESH GURUBASAPPA
69	PUJARI SHIVALILA MALLIKARJUN
70	BHOSALE MANASI APPASO
71	HIEMATH RENUKADEVI SANGAMESH
72	DUMANI KASHINATH IRANNA
73	KUMBHAR VIJAY DHARMANNA
74	NADAF AKBAR MOULA
75	SAWANT SANKET VITTHAL
76	POTADAR SHRUTI ASHOK
77	SWAMI SHIVARAJ RAMESH
78	BARAKADE RANI MARUTI



Signature
Head
Department of Chemistry
 Shri. R. K. Patil Arts, Commerce
 & Science College, Sangli
 Tal. Jath, Dist. Sangli

Question Paper (Soil and Water Analysis)

- 1) Which one is the major technique of soil conservation?
 - a) Control on cattle grazing
 - b) Crop rotation
 - c) Use of chemical fertilizers
 - d) Strip cropping
- 2) Soil washed away by running water is called
 - a) Regolith
 - b) Soil profile
 - c) Eluviation
 - d) Illuviation
- 3) ---- is the most common used amendment for sodic soil reclamation primarily because of low cost and easy availability.
 - a) Concrete
 - b) Sand
 - c) Bitumen
 - d) Gypsum
- 4) Which of the following is the first stage of water erosion?
 - a) Rill erosion
 - b) Sheet erosion
 - c) Splash erosion
 - d) Gully erosion
- 5) Red soil results from the weathered material material of----
 - a) Igneous rock
 - b) Sedimentary rock
 - c) Metamorphic rock
 - d) All of these
- 6) Which among the following is not a nitrogenous fertilizer?
 - a) Ammonium Sulphate
 - b) Calcium Cyanamide
 - c) Superphosphate of Lime



- d) Urea
- 7) Which of the following is not a measure for soil conservation?
- a) Strip cropping
 - b) Terrace cultivation
 - c) Shelter belts
 - d) Overdrawing of ground water
- 8) Soil erosion is caused due to
- a) Rapid urbanization
 - b) Cutting of trees
 - c) Over grazing by animals
 - d) All of above factors
- 9) What is a common feature between Rhizobium and Azospirillum?
- a) Both are nitrogen fixing fungi
 - b) Both are nitrogen fixing bacteria
 - c) Both are harmful for plants
 - d) Both are parasites
- 10) Which of the following soil conservation methods is generally implanted in the coastal and dry regions?
- a) Contour sloughing
 - b) Terrace farming
 - c) Mulching
 - d) Shelter belts



Model Answer Paper (Soil and Water Analysis)

- 1) Which one is the major technique of soil conservation?
 - a) Control on cattle grazing
 - b) Crop rotation
 - c) Use of chemical fertilizers
 - d) Strip cropping
- 2) Soil washed away by running water is called
 - a) Regolith
 - b) Soil profile
 - c) Eluviation
 - d) Illuviation
- 3) -----is the most common used amendment for sodic soil reclamation primarily because of low cost and easy availability.
 - a) Concrete
 - b) Sand
 - c) Bitumen
 - d) Gypsum
- 4) Which of the following is the first stage of water erosion?
 - a) Rill erosion
 - b) Sheet erosion
 - c) Splash erosion
 - d) Gully erosion
- 5) Red soil results from the weathered material material of---
 - a) Igneous rock
 - b) Sedimentary rock
 - c) Metamorphic rock
 - d) All of these



- 6) Which among the following is not a nitrogenous fertilizer?
- a) Ammonium Sulphate
 - b) Calcium Cyanamide
 - c) Superphosphate of Lime
 - d) Urea
- 7) Which of the following is not a measure for soil conservation?
- a) Strip cropping
 - b) Terrace cultivation
 - c) Shelter belts
 - d) Overdrawing of ground water
- 8) Soil erosion is caused due to
- a) Rapid urbanization
 - b) Cutting of trees
 - c) Over grazing by animals
 - d) All of above factors
- 9) What is a common feature between Rhizobium and Azospirillum?
- a) Both are nitrogen fixing fungi
 - b) Both are nitrogen fixing bacteria
 - c) Both are harmful for plants
 - d) Both are parasites
- 10) Which of the following soil conservation methods is generally implanted in the coastal and dry regions?
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2021-2022

RESULT ANALYSIS

Sr.No	Student Name	Marks	Grade
1	PATIL AISHWARYA RAVSAB	16	B+
2	PATIL MAHESH REVANSHIDHA	18	A
3	NAVI MAMATA DASHARATHI	16	B+
4	THOMBARE VASANT SHAMRAO	20	A+
5	CHOUGULE AKSHAY MAHADEV	18	A
6	SHAIKH AJAN VAJIR	18	A
7	SANADI ROHIT RAJENDRA	20	A+
8	KHOT MUKTA SHIVAJI	16	B+
9	KARAPE DHULADEV TUKARAM	16	B+
10	BIRADAR POOJA HANAMANT	16	B+
11	DESAI RANI AVADUT	16	B+
12	KORE SIDDHANING MAHADEV	16	B+
13	KALLI VIKAS RAJENDRA	16	B+
14	VAGOLI SAKSHI RAMAGONDA	18	A
15	AIHOLE ROHINI RAVASAHEB	18	A
16	BIRADAR SHRUTI APPASAHEB	18	A
17	MULLA MINAJ IMAM	16	B+
18	NATIKAR PALLAVI SURESH	18	A

19	DALWAI TANUJA ANNAPPA	18	A
20	NIKAM JAYAVANT RAMACHANDRA	18	A
21	DASHAL ARUN VIDYANAND	16	B+
22	MALI HANAMANT MAHADEV	16	B+
23	DARGUDE SUNIL BIRA	18	A
24	SHIROL RAHUL BABASAHEB	16	B+
25	SHIROL VISHAL CHANDRAKANT	16	B+
26	KHOT KOMAL NAMDEO	16	B+
27	NATIKAR SUPRITA RAMAPPA	20	A+
28	TAMBE PUTALAPPA PARAMESHWAR	18	A
29	REBAGOND MALLESH BASAGOND	20	A+
30	KADAM PRANAV DILIP	16	B+
31	UDAGERI CHANDRASHEKHAR MALLIKARJUN	18	A
32	KODAG LAKHAN MADHU	16	B+
33	JADHAV AMOL DATTARAM	16	B+
34	INDI RAVIKANT RAJENDRA	16	B+
35	KAMBLE ROOPALI SOPAN	20	A+
36	NILE AMOL PRAKASH	16	B+
37	SALUNKHE SIDDHESHWAR MAHADEV	18	A
38	VHANWADE SATISH BASU	18	A
39	SARAGAR RAJAT BABAN	18	A
40	SAWANT AMOL DADASO	18	A
41	KUMBAR RAGHAVENDRA RAJENDRA	16	B+

42	DINDUR SHIVAKUMAR SHARANAPPA	16	B+
43	HIREMATH PUSHPA RADDAYYA	18	A
44	BIRADAR BHAGYASHRI RAMAGONDA	16	B+
45	KHOT TUKARAM AVADUT	16	B+
46	MOTE SURESH RAJU	18	A
47	PATIL PRAVIN TAYAPPA	16	B+
48	MUDAGOUDAR AKSHAYKUMAR SHANKARGOUD	16	B+
49	PUJARI KAVITA KALLAPPA	18	A
50	ARALI ROHINI SHRISHAIL	16	B+
51	KOLI MALLIKARJUN RAMANNA	16	B+
52	BHUSNUR SUNIL LAHAYAPPA	16	B+
53	SONAVANE AKSHATA BHMASHANKAR	18	A
54	MOTE SAGAR MHALAPPA	16	B+
55	BIRADAR ANJALI SANGANNA	16	B+
56	CHAVAN SARASWATI NARAYAN	18	A
57	PANDHARE MARAGU BHAGAVAN	16	B+
58	SOLANKAR SATISH SHRIMANT	18	A
59	MALI MAHANTESH DARYAPPA	20	A+
60	BIRADAR RAKSHITA RAMAGOND	20	A+
61	SANYAR HARSHAD MAHADEV	18	A
62	UMARANI RIZAWANA MIRASAB	18	A
63	CHAVAN DHARMARAJ GANGARAM	16	B+
64	GHAGARE YALLALING PANDURANG	16	B+

65	KHOT AKSHATA PANDURANG	16	B+
66	MALI PARSHURAM TAMMANNA	18	A
67	KENGAR RAJESHRI BHAGAVAN	16	B+
68	KOTYAL MAHESH GURUBASAPPA	18	A
69	PUJARI SHIVALILA MALLIKARJUN	16	B+
70	BHOSALE MANASI APPASO	18	A
71	HIREMATH RENUKADEVI SANGAMESH	18	A
72	DUMANI KASHINATH IRANNA	16	B+
73	KUMBHAR VIJAY DHARMANNA	14	B
74	NADAF AKBAR MOULA	16	B+
75	SAWANT SANKET VITTHAL	18	A
76	POTADAR SHRUTI ASHOK	18	A
77	SWAMI SHIVARAJ RAMESH	16	B+
78	BARAKADE RANI MARUTI	18	A

Abhishek
**Course
Coordinator**



Department of Chemistry

Soil & Water Analysis Report (2021-2022)

It has been noted that, the Soil recommendations contain important factors including fertilizer form, source, application timing, and placement and irrigation management. The optimum fertilizer amount is determined from laboratory experiments conducted on various parameters like primary element and secondary elements, and micronutrient analysis. The goal of Soil & Water analysis research on Soil is to determine the amount of fertilizer needed to achieve commercial crop yield. Generally, available nitrogen, Phosphorous and potassium can be estimated in chemical laboratory with Conductometer and P^H meter. Some software's are developed in order to feed the calculated readings. The common simple parameters like P^H and E.C. are very much applicable in deciding micronutrient availability to the crops. Thus, if P^H is below than 7, soil can be made alkaline by adding lime till P^H becomes neutral. On the other side if P^H is more than 7 soil can be made acidic by adding Gypsum till P^H becomes neutral. The determination of E.C. ensures total amount of Salts present in the soil and proper recommendation is made accordingly. The E.C. should be less than 1 for better crop yield. Overall, more than 65 students of B.Sc. III Students worked for the samples from nearby Koregoan Tehsil. Students have been participated in the said course with actual demonstration and hands on training with proper guidance. After completion of the Course, certificates are conferred individually at the end of Course.



Head

Department of Chemistry
Shri. R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli



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Department Of Chemistry

Certificate Course of "Soil & Water Analysis"

Academic Year – 2021-2022

Attendance Sheet

Sr.No	Name Of Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	PATIL AISHWARYA RAYNAB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
2	PATIL MAHESH REVANSHERIA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	NAVI MAMATA DASIRATHI	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	TRIMBARE VASANT SHAMRAG	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
5	CHOURULE AKSHAY MAHADEV	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6	SHAIKH AJAN VAJIB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
7	SAMADI ROHIT RAJENDRA	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
8	KHOT MUKTA SHIVAJI	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9	KARAPATI DHIRAJDEV TUKARAM	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	KADAR POOJA HANAMANT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	BEANE AVADUT	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
	SIDDHANING MAHADEV	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB





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SHRI SHIVAJINGESHWAR SHIKSHAN SANSTHA'S SANKH
SHRI R.K. PATIL ARTS, COMMERCE AND SCIENCE COLLEGE SANKH

TAL. - JATH DIST. - SANGLI.
(Affiliated to Shivaji University, Kolhapur)
GRADUATE DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to Certify that *Mr. /Ms. Desai Roni Anand* Class: *B.Sc.* Subject: *Chemistry* successfully completed the "Career Oriented Programme in Soil and Water Analysis" at Graduate Department of Chemistry in B⁺ in the academic year 2021 - 2022


Prof. Haladaki A.S.
Course Coordinator


I/C Principal
Dr. Dalawai S.P.

I/c. Principal,
Shri R. K. Patil Arts, Commerce & Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



|| Dhairyam Sarvatra Sadhanam ||

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Add-on Certificate Course

On

Sericulture



Organised by

Department of Zoology

Course incharge

Mr.Mali.G.S

Course duration-1 Dec.2018 -5 Jan2019



INDEX

Add-on certificate course on sericulture

Year:2018-2019

Sr.no.	Content
1.	Permission Letter
2.	Notice
3.	Syllabus
4.	Objectives and Learning Objectives
5.	Time table
6.	List of participants
7.	Attendance
8.	Question Paper
9.	Certificate





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Ref.No.

Date :23/11/2018

To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course in
Certificate

Course of Sericulture

Respected sir,

With the reference to above subject, our Botany department is going to
conduct certificate course in Certificate Course of **Sericulture** for B. Sc.
Students in this year academic year (2018-19). So, I request you to give us
permission to conduct above said course.

Thanking you,


Yours Faithfully

Department of Zoology,
Shri RK Patil ACS College Sankh,
Tal- Sankh,Dist-Sangli

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal-Jath, Dist-Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Notice

Date-25-11-2018

All students of B.sc I are here by informed that Department has organised " Add-on Certificate Course on Sericulture" from 28-11-2018 .All students are informed that they should remain present for course on time. It may clearly noted that will be collected from absent students.


Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
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Tal. Jath, Dist. Sangli





Title- Add-on Certificate Course on Sericulture. Total Hrs.30

Theory

- Life cycle of Bombyx mori-Morphology of egg,larva,pupa, and adult of Bombyx mori.
- Morphology and Anatomical structure of Silk gland.
- Rearing house:Location,orientation ,plan and utilities; model rearing house;low-cost rearing house.
- Chawki rearing:Preparation; brushing and its methods;types of chawki rearing traditional and improved method ;optimum environmental conditons; methods and frequency of feeding,methods of bed cleaning spacing;moulting and care during moult.
- Late age silkworm rearing :Methods;optimum environmental condition ;methods andfrequency of feeding;methods of bed cleaning;Spacing;moultingcare during moult.
- Brushing : Methods ;chwki rearing ;use of paraffin paper andblue polytene sheet.Bed cleaning;use of bed cleaning net and disposal of bed refuses and silkworm litter.
- Moulting: Identification of moultinglarva, care during moulting;moulting density; harvesting of cocoons; assessmentof cocoons types of mountages;Maintanance of records for silkworm rearing.
- Introduction; Classification of silkworm disease.

Practicals

- Study of life cycle of Silkworm
- Choking of silkworm



Department of Zoology
Year:2018-19
Add-on Certificate Course
On
Sericulture

Objectives:


- On completing the Sericulture course, students will be able to understand overall aspects of Sericulture, namely, Mulberry and non-mulberry silkworms and their food plants, Rearing of the silkworm pathology. Process of silkworm seed production and silk technology.
- This course creates awareness among about the economic importance and suitability of sericulture in Indian conditions.
- Students will get hands on training on Mulberry nursery management, Silkworm rearing, and Silk reeling.
- Employing self employment and entrepreneurship among youths.

Learning Outcomes:

- Understand concepts of sericulture industry and demonstrate interdisciplinary skills acquired in mulberry plant cultivation, silkworm rearing, diagnosis of diseases and pest of mulberry and silkworm and their prevention and its Seri-farmers livelihood.
- Demonstration the Laboratory and field skills in mulberry cultivation and silkworm rearing with emphasis on technological aspects..
- Competent to transfer the knowledge and technical skills to the Seri-farmers.
- Critically analyse the environmental issues and apply in management of mulberry garden and silkworm rearing at field.


Incharge Certificate Course




Department of Zoology
Head
Department of Zoology
Shri R. K. & Jati Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist. Sangli



Department of Zoology

Year: 2018-19

Add-on Certificate Course

On

Sericulture

Time Table-2018-19

Theory and Practical

Time	Mon	Tues	Wed	Thurs	Fri	Sat
1.30-2.15 Theory	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S
2.30-4.30 Practical	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S	Mr.Mali.G.S



Head
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Shri R. K. Patil Arts, Commerce & Science College, Sankh
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Add-on Certificate Course On Sericulture

Sr. no.	Name of the students
1.	BAGALI MAHESH TAMMARAY
2.	HATTARAKI SACHIN MAHADEV
3.	JADHAV NIKHIL SANJAY
4.	CHAVAN VAISHAIL PANDURANG
5.	BIRAJADAR RAHUL SHRISHAIL
6.	DAPHALE AKSHAY SIDDHANA
7.	BIRADAR SOMANING SHILISIDDA
8.	SHINDE SANI AUDUMBAR
9.	INGOLE DEEPAK BAVUSAHEB
10.	HONAMORE DHANAMMA SHRIKANT
11.	KULAL KOMAL MARUTI
12.	KOTYAL VEENA ASHOK
13.	POOJARI PRIYANKA ARJUN
14.	KULAKARNI GAYATRI SUNIL
15.	UMARANI VIDYA BALASAHEB
16.	WAGOLI SUREKHA SIDDAPPA
17.	BIRADAR MADAGONDA OGEPPA
18.	DESAI PRAMOD GANAPATI
19.	BIRADAR AKSHATA RAJENDRA
20.	NIKAM ARCHANA RAMCHANDRA





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Add-on Certificate Course On Sericulture

Department of Zoology

Year: 2018-19

Attendance sheet

Sr. no	Name of the students	1 Dec	3 Dec	4 Dec	5 Dec	6 Dec	7 Dec	8 Dec	10 Dec	11 Dec
1	BAGALI MAHESH TAMMARAY	A	A	A	A	A	A	A	A	A
2	HATTARAKI SACHIN MAHADEV	Mahadev	Mahadev	Mahadev	Mahadev	Mahadev	Mahadev	Mahadev	Mahadev	Mahadev
3	JADHAV NIKHIL SANJAY	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
3	CHAVAN VAISHAIL PANDURANG	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
4	BIRAJADAR RAHUL SHRISHAIL	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar
5	DAPHALE AKSHAY SIDDHANA	D.A.S	D.A.S	D.A.S	Ab	D.A.S	D.A.S	D.A.S	Ab	Ab
6	BIRADAR SOMANING SHILISIDDA	SSB	SSB	Ab	SSB	SSB	SSB	SSB	Ab	SSB
7	SHINDE SANI AUDUMBAR	San	San	San	San	San	San	San	San	San
8	INGOLE DEEPAK BAVUSAHEB	Dee	Dee	Dee	Dee	Dee	Dee	Dee	Dee	Dee
9	HONAMORE DHANAMMA SHRIKANT	HD	HD	HD	Ab	HD	HD	HD	HD	HD
10	KULAL KOMAL MARUTI	Kulal	Kulal	Kulal	Kulal	Kulal	Ab	Kulal	Kulal	Kulal
11	KOTYAL VEENA ASHOK	Kotyal	Kotyal	Kotyal	Kotyal	Kotyal	Kotyal	Kotyal	Kotyal	Kotyal
12	POOJARI PRIYANKA ARJUN	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA
13	KULAKARNI GAYATRI SUNIL	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil



14	UMARANI VIDYA BALASAHEB	Ab	Umant	Umant	Umant	Ab	Umant	Ab	Ab	Ab
15	WAGOLI SUREKHA SIDDAPPA	Surekha	Surekha	Surekha	Ab	Surekha	Surekha	Surekha	Ab	Surekha
16	BIRADAR MADAGONDA OGEPPA	Bm	Bm	Bm	Bm	Bm	Bm	Bm	Bm	Ab
17	DESAI PRAMOD GANAPATI	Pesal	Ab	Pesal	Ab	Pesal	Pesal	Ab	Pesal	Pesal
18	BIRADAR AKSHATA RAJENDRA	Bm	Bm	Bm	Bm	Bm	Bm	Bm	Bm	Bm





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Add-on Certificate Course On Sericulture

Department of Zoology Year: 2018-19, Attendance sheet

Sr. no	Name of the students	12 Dec	13 Dec	14 Dec	17 Dec	18 Dec	19 Dec	20 Dec	21 Dec	22 Dec
1	BAGALI MAHESH TAMMARAY	AB	AB	AB	AB	AB	AB	AB	AB	AB
2	HATTARAKI SACHIN MAHADEV	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	JADHAV NIKHIL SANJAY	AB	AB	AB	AB	AB	AB	AB	AB	AB
3	CHAVAN VAISHAIL PANDURANG	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	BIRAJADAR RAHUL SHRISHAIL	AB	AB	AB	AB	AB	AB	AB	AB	AB
5	DAPHALE AKSHAY SIDDHANA	AB	AB	AB	AB	AB	AB	AB	AB	AB
6	BIRADAR SOMANING SHILUSIDDA	AB	AB	AB	AB	AB	AB	AB	AB	AB
7	SHINDE SANI AUDUMBAR	AB	AB	AB	AB	AB	AB	AB	AB	AB
8	INGOLE DEEPAK BAVUSAHEB	AB	AB	AB	AB	AB	AB	AB	AB	AB
9	HONAMORE DHANAMMA SHRIKANT	AB	AB	AB	AB	AB	AB	AB	AB	AB
10	KULAL KOMAL MARUTI	AB	AB	AB	AB	AB	AB	AB	AB	AB
11	KOTYAL VEENA ASHOK	AB	AB	AB	AB	AB	AB	AB	AB	AB
12	POOJARI PRIYANKA ARJUN	AB	AB	AB	AB	AB	AB	AB	AB	AB
13	KULAKARNI GAYATRI SUNIL	AB	AB	AB	AB	AB	AB	AB	AB	AB
14	UMARANI VIDYA BALASAHEB	AB	AB	AB	AB	AB	AB	AB	AB	AB
15	WAGOLI SUREKHA SIDDAPPA	AB	AB	AB	AB	AB	AB	AB	AB	AB
16	BIRADAR MADAGONDA OGEPPA	AB	AB	AB	AB	AB	AB	AB	AB	AB
17	DESAI PRAMOD GANAPATI	AB	AB	AB	AB	AB	AB	AB	AB	AB
18	BIRADAR AKSHATA RAJENDRA	AB	AB	AB	AB	AB	AB	AB	AB	AB





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com ✪✪✪ Email : Vidyapeetha : rkp616.CI@unishivaji.ac.in

Add-on Certificate Course On Sericulture

Department of Zoology

Year: 2018-19

Attendance sheet

Sr. no	Name of the students	24 Dec	26 Dec	27 Dec	28 Dec	29 Dec	31Dec	1Jan	2 Jan	3 Jan	4 Jan	5 Jan
1	BAGALI MAHESH TAMMARAY	A	A	B	A	A	A	A	A	A	A	A
2	HATTARAKI SACHIN MAHADEV	Hattarak	Hattarak	Hattarak	Hattarak	Hattarak	Hattarak	Hattarak	Hattarak	Hattarak	Hattarak	Hattarak
3	JADHAV NIKHIL SANJAY	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
3	CHAVAN VAISHAIL PANDURANG	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
4	BIRAJADAR RAHUL SHRISHAIL	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar	Birajadar
5	DAPHALE AKSHAY SIDDHANA	D.P.A	D.P.A	D.P.A	D.P.A	D.P.A	D.P.A	D.P.A	D.P.A	D.P.A	D.P.A	D.P.A
6	BIRADAR SOMANING SHILISIDDA	B.S.	B.S.	B.S.	B.S.	B.S.	B.S.	B.S.	B.S.	B.S.	B.S.	B.S.
7	SHINDE SANI AUDUMBAR	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.
8	INGOLE DEEPAK BAVUSAHEB	D.B.	D.B.	D.B.	D.B.	D.B.	D.B.	D.B.	D.B.	D.B.	D.B.	D.B.
9	HONAMORE DHANAMMA SHRIKANT	H.D.	H.D.	H.D.	H.D.	A.B.	H.D.	A.B.	H.D.	H.D.	H.D.	H.D.
10	KULAL KOMAL MARUTI	K.M.	K.M.	K.M.	K.M.	A.B.	K.M.	A.B.	K.M.	K.M.	K.M.	K.M.
11	KOTYAL VEENA ASHOK	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.	K.V.
12	POOJARI	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.	P.P.



	PRIYANKA ARJUN												
13	KULAKARNI GAYATRI SUNIL	Scd	Scd	Scd	Ab	Scd	Scd	Scd	Ab	Scd	Scd	Scd	
14	UMARANI VIDYA BALASAHEB	Scd	Scd	Ab	Scd	Scd	Ab	Scd	Scd	Scd	Scd	Scd	
15	WAGOLI SUREKHA SIDDAPPA	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	
16	BIRADAR MADAGONDA OGEPPA	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	
17	DESAI PRAMOD GANAPATI	Scd	Scd	Ab	Scd	Scd	Scd	Ab	Scd	Scd	Ab	Scd	
18	BIRADAR AKSHATA RAJENDRA	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	Scd	



Dhairyam Sarvatra Sadhanam
Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts,Commerce and Science College ,Sankh

Department of Zoology

Question Paper

Add-on Certificate Course On Sericulture.

Marks:30

Instructions

- 1.All the questions are compulsory.
- 2.Questions to the right indicate full marks.
- 3.Draw neat and labelled diagrams wherever necessary.

Q.1 .Long questions.[any2]

20

- a.Describe in details life cycle of Bombyx mori.
- b.Explain in brief Silkworm fungal diseases.
- c.Explain Chouki rearing

Q.2.Write short notes on following[any2]

10

- a.Silkworm
- b.Types of moutages
- c.Moulting in silkworm




Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sangli
Tal. Jath, Dist, Sangli

SHIVALINGESHWAR SHIKSHAN SANSTHA

SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE
COLLEGE SANKH

TAL - JATH DIST- SANGLI.

(Affiliated to Shivaji University, Kolhapur)

GRADUATE DEPARTMENT OF Zoology



CERTIFICATE

This is to Certify that **Mr. /Ms. Katyal Veena Ashok**.....has
successfully completed the "**Sericulture**" at graduate
Department of Zoology in **first class** in the academic year
2018-19


Co-ordinator

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli


I/C Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



Autonomous (Self-Financed) Short Term Course

in

"Mushroom Cultivation"

Organized by

Department of Botany

Smt. Patil S. B.

Head and Course Co-ordinator

Department of Botany

2018-2019



Patil S.B.

Head

Department of Botany

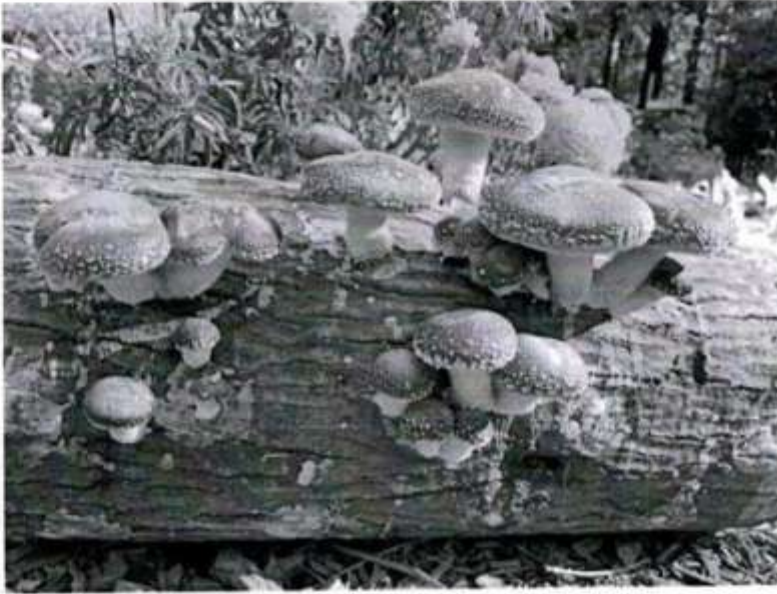
**Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli**

॥ Dhairyam Sarvatra Sadhanam ॥

Shri Shivalingeshwar Shiksan Sanstha's Sankh

**Shri R. K. Patil Arts, Commerce and Science College,
Sankh.**

**Certificate Course
In
MUSHROOM CULTIVATION**



**Department of Botany,
Shri RK Patil ACS College Sankh,
Tal- Sankh, Dist-Sangli**





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Ref.No.

Date :25/11/2018

To,
The Principal,
Shri. R.K.P. Art, Commerce
and Science College, Sankh.
Tal-Jath, Dist- Sangli.416412

Subject: Regarding permission to commencement of certificate Course
in Certificate.

Course of Mushroom Cultivation

Respected sir,

With the reference to above subject, our Botany department is going
to conduct certificate course in Certificate Course of **Mushroom
Cultivation** for B. Sc. Students in this year academic year (2018-19). So, I
request you to give us permission to conduct above said course.

Thanking you,

Yours Faithfully

*Created
Patil
25/11/2018*

Patil
Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh,
Tal. Jath, Dist. Sangli
Tal- Sankh, Dist-Sangli





Department of Botany Short Term Course: "Mushroom Cultivation"

(2018-2019)

THEORY SYLLABUS

UNIT-1:

(6 Lectures)

Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible); Nutritional values of mushrooms, Scope for large scale cultivation, Different cuisines by using mushroom

UNIT-2:

(6 Lectures)

Methodology for mushroom cultivation: Preparation of Spawn (grain spawn and straw spawn); Preparation of mushroom bed; Spawning of mushroom bed; Watering of mushroom bed; Harvesting of mushroom

UNIT-3:

(6 Lectures)

Harvest and Post-Harvest Handling:

Precautions for mushroom Harvesting, Grading, Post-harvest techniques and storage

UNIT-4:

(2 Lectures)

Need for the mass cultivation; Market status of mushroom; Different marketing strategies.





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Botany Short Term Course: "Mushroom Cultivation"

(2018-2019)

LIST OF PRACTICALS

Practical 1. Study of Classification of Mushroom

Practical 2. Study of preparation of Spawn (grain spawn and straw spawn)

Practical 3. Study of technique of mushroom culture on bed

Practical 4. Study of harvesting methods of mushroom

Practical 5. Study of different food preparations from edible mushroom

Practical 6. Study of Grading; drying; storage methods





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To,

M.S. MALI

HOD of Botany Department,

Arts, Commerce and Science College, Umadi

A/P- Umadi , Tal- Jath

Dist- Sangli

Subject: Invitation as a resource person for certificate course in
"Mushroom Cultivation"

Respected Sir,

I am pleased to invite you to conduct certificate course
in "Mushroom Cultivation" for academic 2018-19\nder
Department of Botany from **Date 10/12/2018 to 10/02/2019.**

We look forward your presence and guidance

Thanking you

Patil R.K.
Your faithfully

Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





**Department of Botany Short Term Course: "Mushroom Cultivation"
(2018-2019)**

SYLLABUS DISTRIBUTION FOR THEORY AND PRACTICALS

Lectures: 30 (Theory: 20 and Practical: 10)

Sr. No	Theory	Name of Faculty
1.	Importance of mushroom cultivation: Types of mushrooms (Edible and non-edible), Nutritional values of mushrooms, Need for the mass cultivation, Market status of mushroom, Scope for large scale cultivation	S.B. Patil
2.	Different Practices for mushroom cultivation Preparation of Spawn. Preparation of mushroom bed, spawning of mushroom bed, Watering of mushroom bed, Harvesting of mushroom.	
3.	Necessary precautions for mushroom cultivation	
4.	Post-harvest storage, Different marketing strategies	
	Practicals	Name of Faculty
1.	Preparation of Spawn/mushroom bed	S.B. Patil
2.	Culturing of mushroom and watering of bed	
3.	Harvesting of mushroom	
4.	Necessary precautions during harvesting and their storage	



Patil
Head & HOD
Department of Botany
Shri R.K.Patil Arts, Commerce and Science College, Sangli
Tal. Jath, Dist. Sangli



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Department of Botany Short Term Course: "Mushroom Cultivation"

(2018-2019)

BOS PANEL

INTERNAL EXPERT

Sr. No.	Name of Faculty	Designation
1.	S. B. Patil	Head and Course co-ordinator Department of botany

External Expert

Sr. No.	Name of Faculty	Designation
01	M.S. MALI	HOD of Botany Department Arts, Commerce And Science college, Umadi





Department of Botany

Short Term Course: "Mushroom Cultivation"

(2018-2019)

Time -Table

Time	Day		
2.30-3.30pm	Lecture	Monday (Batch -A)	Thursday (Batch-B)
2.30-3.30pm	Practical	Tuesday (Batch -A)	Friday (Batch-B)





Department of Botany
Short Term Course: "Mushroom Cultivation"
(2018-2019)

Date :

04 /12/2018

NOTICE

All the students of B.Sc-I are hereby informed that the Department of Botany is conducting a self-financed three month Short Course on "Mushroom Cultivation".

Interested students register their names to Mr. S. B. Patil before 08/12/2018.



Patil S.B.
Head
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Department of Botany

Short Term Course: "Mushroom Cultivation"

(2018-2019)

Resistration List

Sr. No	Name of students
1.	BAGELI VIJAYAKUMAR MALLIKARJUN
2.	MADOLI SIDARAYA KAMAGONDA
3.	PATIL VIJAYKUMAR SANGAPPA
4.	WAGH PRAMOD SURESH
5.	JAYAGOND SHIVANAND SHIVPUTRA
6.	PATIL SOUJANYA GOPALGOUDA
7.	TERADAL POOJA SHANKAR
8.	SOUDAGAR MUJAMIL HAJILAL
9.	PUNDE SHIVAM RAMACHANDRA
10.	MANG PRADIP SIDDHAPPA
11.	CHAVAN MAHESH SUBHASH
12.	DALAWAI SAMADHAN VASANT
13.	LENGARE SUNIL KRUSHNA
14.	PUJERI BHARATI BASAPPA
15.	MATHAPATI KIRAN SOMAYYA
16.	PATIL PRATIKSHA BASAPPA
17.	INDI SHRUSTI RAJSHEKHAR
18.	SHEELIN DEEPA ARJUN
19.	KONDI MALLAPPA SADASHIV
20.	SAKRIMATH ARCHANA KADAYYA



Sr. No	Name of students
21	HUNNUR GAJANAN MAHADEV
22	JEUR KAVERI ANIL
23	PUJARI ASHWINI GOPAL
24	PUJARI SUREKHA NINGAPPA
25	TERADAL KAVERI MURAGEPPA
26	SARJE DARYAPPA JAYASING
27	DALAWAI SACHIN GOPAL
28	GADADE SAGAR SHRIMANT
29	WAGHAMORE MAHESH LAXMAN
30	KOLI RAVIKANT IRAPPA
31	KORE DILEEP RAVINDRA
32	HUWALE CHETAN ONKAR
33	SANADI PRATIK CHIDANAND





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Department of Botany

Short Term Course: "Mushroom Cultivation"
(2018-2019)

Attendance for theory

Sr. No	Name of students	Dates							
		10 th Dec	12 th Dec	14 th Dec	15 th Dec	17 th Dec	19 th Dec	21 th Dec	24 th Dec
1.	BAGELI VIJAYAKUMAR MALLIKARJUN	Present	Present	Present	Present	—	Present	Present	Present
2.	MADOLI SIDARAYA KAMAGONDA	Present	Present	Present	Present	Present	Present	Present	Present
3.	PATIL VIJAYKUMAR SANGAPPA	Present	Present	Present	Present	Present	Present	Present	Present
4.	WAGH PRAMOD SURESH	W.P.S	W.P.S	W.P.S	W.P.S	W.P.S	W.P.S	W.P.S	W.P.S
5.	JAYAGOND SHIVANAND SHIVPUTRA	Present	Present	Present	Present	—	Present	Present	Present
6.	PATIL SOUJANYA GOPALGOUDA	P.S.G	P.S.G	P.S.G	P.S.G	P.S.G	P.S.G	P.S.G	P.S.G
7.	TERADAL POOJA SHANKAR	ST	ST	ST	ST	ST	ST	ST	ST
8.	SOUDAGAR MUJAMIL HAJILAL	Present	Present	Present	Present	Present	Present	Present	Present
9.	PUNDE SHIVAM RAMACHANDRA	Present	Present	Present	Present	Present	Present	Present	Present
10.	MANG PRADIP SIDDHAPPA	P.M.S	P.M.S	P.M.S	P.M.S	P.M.S	P.M.S	P.M.S	P.M.S
11.	CHAVAN MAHESH SUBHASH	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch
12.	DALAWAI SAMADHAN VASANT	D.V.S	D.V.S	D.V.S	D.V.S	D.V.S	D.V.S	D.V.S	D.V.S
13.	LENGARE SUNIL KRUSHNA	LK	LK	LK	LK	LK	LK	LK	LK
14.	PUJERI BHARATI BASAPPA	P.B.B	P.B.B	P.B.B	P.B.B	P.B.B	P.B.B	P.B.B	P.B.B
15.	MATHAPATI KIRAN SOMAYYA	Present	Present	Present	Present	Present	Present	Present	Present
16.	PATIL PRATIKSHA BASAPPA	Present	Present	Present	Present	Present	Present	Present	Present
17.	INDI SHRUSTI RAJSHEKHAR	Present	Present	Present	Present	Present	Present	Present	Present
18.	SHEELIN DEEPA ARJUN	Present	Present	Present	Present	Present	Present	Present	Present
19.	KONDI MALLAPPA SADASHIV	Present	Present	Present	Present	Present	Present	Present	Present
20.	SAKRIMATH ARCHANA KADAYYA	Present	Present	Present	Present	Present	Present	Present	Present



Sr No	Name of students	Dates							
		10 th Dec	12 th Dec	14 th Dec	15 th Dec	17 th Dec	19 th Dec	21 th Dec	24 th Dec
21	HUNNUR GAJANAN MAHADEV	Hunn	Hunn	Hunn	Hunn	Hunn	Hunn	Hunn	Hunn
22	JEUR KAVERI ANIL	Jeur	Jeur	Jeur	Jeur	Jeur	Jeur	Jeur	Jeur
23	PUJARI ASHWINI GOPAL	Pujari	Pujari	Pujari	Pujari	Pujari	Pujari	Pujari	Pujari
24	PUJARI SUREKHA NINGAPPA	Pujari	Pujari	Pujari	Pujari	Pujari	Pujari	Pujari	Pujari
25	TERADAL KAVERI MURAGEPPA	Teradal	Teradal	Teradal	Teradal	Teradal	Teradal	Teradal	Teradal
26	SARJE DARYAPPA JAYASING	Sarje	Sarje	Sarje	Sarje	Sarje	Sarje	Sarje	Sarje
27	DALAWAI SACHIN GOPAL	Dalwai	Dalwai	Dalwai	Dalwai	Dalwai	Dalwai	Dalwai	Dalwai
28	GADADE SAGAR SHRIMANT	G.S.S.	G.S.S.	G.S.S.	G.S.S.	G.S.S.	G.S.S.	G.S.S.	G.S.S.
29	WAGHAMORE MAHESH LAXMAN	Wm	Wm	Wm	Wm	Wm	Wm	Wm	Wm
30	KOLI RAVIKANT IRAPPA	Koli	Koli	Koli	Koli	Koli	Koli	Koli	Koli
31	KORE DILEEP RAVINDRA	Kore	Kore	Kore	Kore	Kore	Kore	Kore	Kore
32	HUWALE CHETAN ONKAR	Huwale	Huwale	Huwale	Huwale	Huwale	Huwale	Huwale	Huwale
33	SANADI PRATIK CHIDANAND	Sanadi	Sanadi	Sanadi	Sanadi	Sanadi	Sanadi	Sanadi	Sanadi





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Department of Botany
Short Term Course: "Mushroom Cultivation"
(2018-19)

Attendance for Practical

Sr No	Name of students	Dates								
		02 nd Jan	4 th Jan	08 th Jan	11 th Jan	14 th Jan	18 th Jan	21 st Jan	25 th Jan	
1.	BAGELI VIJAYAKUMAR MALLIKARJUN	Present	Present	Present	Present	Present	Present	Present	Present	
2.	MADOLI SIDARAYA KAMAGONDA	Present	Present	Present	Present	Present	Present	Present	Present	
3.	PATIL VIJAYKUMAR SANGAPPA	Present	Present	Present	Present	Present	Present	Present	Present	
4.	WAGH PRAMOD SURESH	Present	Present	Present	Present	Present	Present	Present	Present	
5.	JAYAGOND SHIVANAND SHIVPUTRA	Present	Present	Present	Present	Present	Present	Present	Present	
6.	PATIL SOUJANYA GOPALGOUDA	Present	Present	Present	Present	Present	Present	Present	Present	
7.	TERADAL POOJA SHANKAR	Present	Present	Present	Present	Present	Present	Present	Present	
8.	SODAGAR MUJAMIL HAJILAL	Present	Present	Present	Present	Present	Present	Present	Present	
9.	PUNDE SHIVAM RAMACHANDRA	Present	Present	Present	Present	Present	Present	Present	Present	
10.	MANG PRADIP SIDDHAPPA	Present	Present	Present	Present	Present	Present	Present	Present	
11.	CHAVAN MAHESH SUBHASH	Present	Present	Present	Present	Present	Present	Present	Present	
12.	DALAWAI SAMADHAN VASANT	Present	Present	Present	Present	Present	Present	Present	Present	
13.	LENGARE SUNIL KRUSHNA	Present	Present	Present	Present	Present	Present	Present	Present	
14.	PUJERI BHARATI BASAPPA	Present	Present	Present	Present	Present	Present	Present	Present	
15.	MATHAPATI KIRAN SOMAYYA	Present	Present	Present	Present	Present	Present	Present	Present	
16.	PATIL PRATIKSHA BASAPPA	Present	Present	Present	Present	Present	Present	Present	Present	
17.	INDI SHRUSTI RAJSHEKHAR	Present	Present	Present	Present	Present	Present	Present	Present	
18.	SHEELIN DEEPA ARJUN	Present	Present	Present	Present	Present	Present	Present	Present	
19.	KONDI MALLAPPA SADASHIV	Present	Present	Present	Present	Present	Present	Present	Present	
20.	SAKRIMATH ARCHANA KADAYYA	Present	Present	Present	Present	Present	Present	Present	Present	



Sr No	Name of students	Dates							
		02 th Jan	4 th Jan	08 th Jan	11 th Jan	14 th Jan	18 th Jan	21 th Jan	25 th Jan
21	HUNNUR GAJANAN MAHADEV	<u>Hunn</u>	<u>Hunn</u>	<u>Hunn</u>	<u>Hunn</u>	<u>Hunn</u>	<u>Hunn</u>	<u>Hunn</u>	<u>Hunn</u>
22	JEUR KAVERI ANIL	<u>Jeur</u>	<u>Jeur</u>	<u>Jeur</u>	<u>Jeur</u>	<u>Jeur</u>	<u>Jeur</u>	<u>Jeur</u>	<u>Jeur</u>
23	PUJARI ASHWINI GOPAL	<u>P.A.G</u>	<u>P.A.G</u>	<u>P.A.G</u>	<u>P.A.G</u>	<u>P.A.G</u>	<u>P.A.G</u>	<u>P.A.G</u>	<u>P.A.G</u>
24	PUJARI SUREKHA NINGAPPA	<u>Pujari</u>	<u>Pujari</u>	<u>Pujari</u>	<u>Pujari</u>	<u>Pujari</u>	<u>Pujari</u>	<u>Pujari</u>	<u>Pujari</u>
25	TERADAL KAVERI MURAGEPPA	<u>Teradal</u>	<u>Teradal</u>	<u>Teradal</u>	<u>Teradal</u>	<u>Teradal</u>	<u>Teradal</u>	<u>Teradal</u>	<u>Teradal</u>
26	SARJE DARYAPPA JAYASING	<u>Sarje</u>	<u>Sarje</u>	<u>Sarje</u>	<u>Sarje</u>	<u>Sarje</u>	<u>Sarje</u>	<u>Sarje</u>	<u>Sarje</u>
27	DALAWAI SACHIN GOPAL	<u>Dalwai</u>	<u>Dalwai</u>	<u>Dalwai</u>	<u>Dalwai</u>	<u>Dalwai</u>	<u>Dalwai</u>	<u>Dalwai</u>	<u>Dalwai</u>
28	GADADE SAGAR SHRIMANT	<u>Gadade</u>	<u>Gadade</u>	<u>Gadade</u>	<u>Gadade</u>	<u>Gadade</u>	<u>Gadade</u>	<u>Gadade</u>	<u>Gadade</u>
29	WAGHAMORE MAHESH LAXMAN	<u>Wag</u>	<u>Wag</u>	<u>Wag</u>	<u>Wag</u>	<u>Wag</u>	<u>Wag</u>	<u>Wag</u>	<u>Wag</u>
30	KOLI RAVIKANT IRAPPA	<u>Koli</u>	<u>Koli</u>	<u>Koli</u>	<u>Koli</u>	<u>Koli</u>	<u>Koli</u>	<u>Koli</u>	<u>Koli</u>
31	KORE DILEEP RAVINDRA	<u>Kore</u>	<u>Kore</u>	<u>Kore</u>	<u>Kore</u>	<u>Kore</u>	<u>Kore</u>	<u>Kore</u>	<u>Kore</u>
32	HUWALE CHETAN ONKAR	<u>Huwale</u>	<u>Huwale</u>	<u>Huwale</u>	<u>Huwale</u>	<u>Huwale</u>	<u>Huwale</u>	<u>Huwale</u>	<u>Huwale</u>
33	SANADI PRATIK CHIDANAND	<u>Sanadi</u>	<u>Sanadi</u>	<u>Sanadi</u>	<u>Sanadi</u>	<u>Sanadi</u>	<u>Sanadi</u>	<u>Sanadi</u>	<u>Sanadi</u>





Department of Botany Add-On Course: "Mushroom Cultivation"

(2018-2019)

Question paper

Total Marks: 50

Time: 11.00 am-1:00 pm

Date:09/02/2019

- Instructions:** 1. All questions are compulsory
2. Draw neat and labelled diagrams wherever necessary.
3. Figures to the right indicate full marks.

Q. I Write short notes on any six:

(30 Marks)

- Describe the nutritional values and health benefits of mushroom?
- Why there is need for mass cultivation of mushrooms?
- Write in brief about different marketing strategies for mushroom?
- How to differentiate edible and non-edible mushrooms?
- Write a brief note of the preparation of spawn and mushroom bed?
- Need of post-harvest storage for mushrooms.

Q. 2 Long answer questions (Any two).

(20 Marks)

- What are the different practices for mushroom cultivation?
- What are the necessary precautions for mushroom cultivation during post-harvest storage?
- What are different nutritional deficiencies in humans and how the consumption of mushroom will helpful; to overcome those deficiencies?



GRADUATE DEPARTMENT OF BOTANY



CERTIFICATE

This is to Certify that **Mr. /Ms. Jenu Kaveri Anil.....** has successfully completed the **"Mushroom Cultivation"** at graduate Department of Botany in the academic year 2018-19

Patil
Head
Co-ordinator
Department of Botany
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

Patil
Principal,
I/C Principal
Shri R. K. Patil Arts, Commerce & Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412





Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

PH : 02344-299127. Mob. : (O) 7448000616.



Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Cl@unishivaji.ac.in

Academic Year 2018-19

CERTIFICATE COURSE

(2018-2019)

By

Department of Commerce,

Shr R.K. Patil Arts, Commerce and Science Collage, Sankh

(2018-2019)





To be implemented from the Academic Year 2018-2019

TITLE:- Certificate Course in Goods and Service Tax

YEAR OF IMPLEMENTATION: 2018-19

CONDUCTING DEPARTMENT: COMMERCE

PREAMBLE:

The constitution contains the Union List and the State List within which the power to levy separate taxes is given to the Centre and States respectively. GST was to be levied in such a way that both the Centre and the States received the power to levy and collect it. Further, the legislation had to remain consistent across the Centre and the various State/Union Territory Legislatures, to provide for this, an amendment in the Constitution was necessary.

LEARNING OUTCOMES:

Students should be able to understand various terms related to Goods and Service tax (GST). 2. To make students understand the concept of forward charge mechanism, reverse charge mechanism, composite supply, mixed supply and various exemptions under the new Goods and Service tax regime.

CERTIFICATE COURSE OUTCOMES:

1. It helps in raising an individual's salary by 15% to 25% on average.
2. It increases the number of job opportunities available to individuals.
3. It enables individuals to start their own consultancy



Syllabus Content:**Duration:**

WEEK	TOPIC	SUBTOPIC
1	GST in India	A)Meaning and Basic Concept of GST B) History of GST C)Principle of Indirect Taxes
2	Supply under GST	A)Relevant Definitions B)Concept of Supply
3	Charge on GST	a)Goods exempt from tax B)List of services exempt from tax
4	Exemption from GST	A)Power of grant exemption from Tax

The duration of Certificate Course shall be of 30 days.

REFERENCE BOOKS:-

1. Taxmann's GST Ready Reckoner (Budget 2018 Edition) By VS Dattey
2. Taxmann's GST Manual with GST Law Guide & Digest of Landmark Rulings (Budget 2019 Edition) Set of 2 Volumes
3. Taxmann's GST Audit and Annual Return (2nd Edition January 2018)
4. GST Law and Analysis with Conceptual Procedures: By Bimal Jain and Isha Bansal (Set of 4 Volumes)
5. Taxmann's GST Mini Ready Reckoner (2nd Edition 2018)

GST BOOKS IN INDIA PREVIOUS EDITIONS

6. GST Ready Reckoner (8th Edition, April 2018)



ADMISSION PROCESS:

The subject knowledge consisting of GST GST regarding questions for 50 marks.
(Multiple Choice Questions i.e. MCQs)

ELIGIBILITY:

1. Candidates who have passed any HSC of any statutory Board recognized Equivalent thereto must have obtained minimum aggregate 40 percent marks.

MEDIUM OF INSTRUCTION:

The medium of instruction shall be in Marathi and English.

STANDARD OF PASSING:

To pass 40% Marks in MCQ paper





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Student Enrollment List

Sr.No	Name of the Student
1	SWAMI TEJSWINI GURPADAYYA
2	SUREKAR CHANDRIDA BASAPPA
3	PAWAR MAYA JAYAPAL
4	BIRAJDAR RANI SURESH
5	GURAV PUJA KENCHAPPA
6	MALI SHASHIKANT ANANDAMALI
7	BIDRI BASAVARAJ SHRISHAIL
8	CHAVAN SARALA RAVASAHEB
9	BAGELI MAHESH BALAGONDA
10	BABAR SUPRIYA YUVARAJ
11	KHANDAGALE PRAJAKTA PANDIT
12	JADGAV BHAGYASHREE TUKARAM
13	ACHEGAVN MAHESH CHANDRAM
14	AWAJI SANTHOSH MAHADEV AWAJI
15	JAGTAP JYOTI RAMESH
16	HADAPAD DEEPALI SURESH
17	CHAVAN ASHVINI SAGUDAS
18	PATIL ANIL MARUTI
19	SUTAR SONALI SURESH
20	MULLA SALIM IMAM





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नोटीस

कॉमर्स विभागातील सर्व विद्यार्थ्यांना सूचित करणेत येते की, कॉमर्स विभागामार्फत बी. भाग - 1 साठी आयोजित 'Certificate Course in Goods and Service Tax' दि. 15/01/2019 पासून सुरु होत आहे. तरी प्रवेश घेतलेल्या सर्व विद्यार्थ्यांनी सोबत दिलेल्या वेळापत्रकाप्रमाणे तासास उपस्थित राहावे.

(Signature)

Head
Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





Shri Shivalingeshwar Shikshan Sanstha's Sankh
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CERTIFICATE COURSE IN GOODS AND SERVICE TAX (TAX)

TIME TABLE

Time: 1:30am. To 2:30am

Sr. No.	Date	Syllabus Content
1	15/01/2019	Meaning and Concept of GST
2	16/01/2019	Background of GST
3	17/01/2019	Principles of Indirect Taxes
4	18/01/2019	Supply under GST
5	19/01/2019	Supply under GST
6	21/01/2019	Supply under GST
7	22/01/2019	Relevant Definitions
8	23/01/2019	Concept of Supply (section-7)
9	24/01/2019	Concept of Supply (section-7)
10	25/01/2019	Charge on GST
11	28/01/2019	Charge on GST
12	29/01/2019	Charge on GST
13	30/01/2019	Goods Exempt from tax
14	31/01/2019	Goods Exempt from tax
15	01/02/2019	Exemption of Services Exempt Tax
16	02/02/2019	Difference Between Direct Tax and indirect Tax

17	03/02/2019	Difference Between Direct Tax and indirect Tax
18	04/02/2019	GST Rate as per GST Act 2017
19	05/02/2019	GST Rate as per GST Act 2017
20	06/02/2019	Business's Under GST Act 2017
21	07/02/2019	Business's Under GST Act 2017
22	08/02/2019	Business's Under GST Act 2017
23	09/02/2019	Tax Slab and GST Registration Turnover Limit
24	11/02/2019	Tax Slab and GST Registration Turnover Limit
25	12/02/2019	Tax Slab and GST Registration Turnover Limit
26	13/02/2019	Revision of Supply under GST, Charge On GST
27	14/02/2019	Revision of Supply under GST, Charge On GST
28	15/02/2019	Revision of Supply under GST, Charge On GST
29	16/02/2019	Pre. Examination
30	18/02/2019	Pre. Examination





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Notice

Date: 20 February 2019

All the students are informed that certificate course in Goods and Service Tax examination will be held on 25th February, 2019 from 10:00 am to 12:00 pm. However, everyone should be present on time.

Head
Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





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Department of Commerce
Course Certificate : Goods & Service Tax
(2018-19)
Attendance for theory

Sr.no	Name of the students	15 Jan	16 Jan	16 Jan	17 Jan	18 Jan	19 Jan	21 Jan	22 Jan	23 Jan	24 Jan	25 Jan	28 Jan
1													
2	SWAMI TEJSWINI GURPADAYYA	Swami	Swami	Swami	Swami	Swami	Swami	Swami	Swami	Swami	Swami	Swami	Swami
3	PAWAR MAYA JAYAPAL	Maya	Maya	Maya	Maya	Maya	Maya	Maya	Maya	Maya	Maya	Maya	Maya
4	BIRAJDAR RANI SURESH	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
5	GURAV PUJA KENCHAPPA	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav
6	MALI SHASHIKANT ANANDAMALI	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali	Mali
7	BIDRI BASAVARAJ SHRISHAIL	BBS	BBS	BBS	BBS	BBS	BBS	BBS	BBS	BBS	BBS	BBS	BBS
8	CHAVAN SARALA RAVASAHEB	ATB	Chav	Chav	Chav	Chav	Chav	Chav	Chav	Chav	Chav	Chav	Chav
9	BAGELI MAHESH BALAGONDA	BBA	BBA	BBA	BBA	BBA	BBA	BBA	BBA	ATB	BBA	BBA	BBA
10	BABAR SUPRIYA YUVARAJ	Bnl	Bnl	Bnl	Bnl	Bnl	Bnl	Bnl	Bnl	Bnl	Bnl	Bnl	Bnl
11	KHANDAGALE	KP	KP	KP	KP	KP	KP	KP	ATB	KP	KP	KP	KP



	PRAJAKTA PANDIT	Pand	Pand	AB	Pand	Pand	Pand	Pand	Pand	Pand	Pand	Pand	Pand
12	JADGAV BHAGYASHREE TUKARAM	JBT	JBT	JBT	JBT	JBT	AB	JBT	JBT	JBT	JBT	JBT	JBT
13	ACHEGAVN MAHESH CHANDRAM	AB	A.MC	A.MC	A.MC	A.MC	A.MC	A.MC	AB	A.MC	A.MC	A.MC	A.MC
14	AWAJI SANTHOSH MAHADEV AWAJI	Pand	Pand	Pand	AB	Pand	Pand	Pand	AB	Pand	Pand	Pand	Pand
15	JAGTAP JYOTI RAMESH	Joti	Joti	Joti	Joti	Joti	Joti	Joti	Joti	Joti	Joti	Joti	Joti
16	HADAPAD DEEPALI SURESH	DS	DS	DS	DS	DS	DS	AB	DS	DS	DS	DS	DS
17	CHAVAN ASHVINI SAGUDAS	A.SC	A.SC	AB	A.SC	A.SC	A.SC	AB	A.SC	A.SC	A.SC	A.SC	A.SC
18	PATIL ANIL MARUTI	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
19	SUTAR SONALI SURESH	SSS	SSS	AB	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS
20	MULLA SALIM IMAM	S.MI	S.MI	S.MI	S.MI	S.MI	S.MI	S.MI	AB	S.MI	S.MI	S.MI	S.MI



Sr.no	Name of the students	29 Jan	30 Jan	31 Jan	01 Feb	02 Feb	03 Feb	04 Feb	05 Feb	06 Feb	07 Feb	08 Feb	09 Feb
1													
2	SWAMI TEJSWINI GURPADAYYA	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>	<i>Swami</i>
3	PAWAR MAYA JAYAPAL	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>	<i>Maya</i>
4	BIRAJDAR RANI SURESH	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>	<i>BS</i>
5	GURAV PUJA KENCHAPPA	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>	<i>Gurav</i>
6	MALI SHASHIKANT ANANDAMALI	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>	<i>Mali</i>
7	BIDRI BASAVARAJ SHRISHAIL	<i>BBS</i>	<i>BBS</i>	<i>BBS</i>	<i>BBS</i>	<i>BBS</i>	<i>BBS</i>	<i>BBS</i>		<i>BBS</i>	<i>BBS</i>	<i>BBS</i>	<i>BBS</i>
8	CHAVAN SARALA RAVASAHEB	<i>Chav</i>	<i>Chav</i>	<i>Chav</i>	<i>Chav</i>	<i>Chav</i>	<i>Chav</i>		<i>Chav</i>		<i>AB</i>	<i>Chav</i>	<i>Chav</i>
9	BAGELI MAHESH BALAGONDA	<i>AB</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>	<i>BBA</i>
10	BABAR SUPRIYA YUVARAJ	<i>BAB</i>	<i>BAB</i>	<i>BAB</i>	<i>BAB</i>	<i>BAB</i>	<i>AB</i>	<i>BAB</i>	<i>BAB</i>	<i>BAB</i>	<i>BAB</i>	<i>BAB</i>	<i>BAB</i>
11	KHANDAGALE PRAJAKTA PANDIT	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>	<i>KPP</i>
12	JADGAV BHAGYASHREE TUKARAM	<i>JBT</i>	<i>JBT</i>	<i>JBT</i>	<i>JBT</i>	<i>JBT</i>	<i>JBT</i>	<i>JBT</i>	<i>JBT</i>	<i>AB</i>	<i>JBT</i>	<i>JBT</i>	<i>JBT</i>
13	ACHEGAVN MAHESH CHANDRAM	<i>AB</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>	<i>ACH</i>
14	AWAJI SANTHOSH	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>	<i>Awoji</i>



	MAHADEV AWAJI	<u>Awaji</u>	<u>Awaji</u>	<u>Awaji</u>	<u>AB</u>	<u>Awaji</u>	<u>Awaji</u>	<u>Awaji</u>	<u>Awaji</u>
15	JAGTAP JYOTI RAMESH	<u>Joti</u>	<u>AB</u>	<u>Joti</u>	<u>Joti</u>	<u>Joti</u>	<u>Joti</u>	<u>AB</u>	<u>Joti</u>
16	HADAPAD DEEPALI SURESH	<u>HP</u>	<u>HP</u>	<u>HP</u>	<u>HP</u>	<u>AB</u>	<u>HP</u>	<u>HP</u>	<u>HP</u>
17	CHAVAN ASHVINI SAGUDAS	<u>ASC</u>	<u>ASC</u>	<u>ASC</u>	<u>ASC</u>	<u>ASC</u>	<u>ASC</u>	<u>ASC</u>	<u>ASC</u>
18	PATIL ANIL MARUTI	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
19	SUTAR SONALI SURESH	<u>Sutar</u>	<u>Sutar</u>	<u>AB</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>
20	MULLA SALIM IMAM	<u>Mulla</u>	<u>Mulla</u>	<u>Mulla</u>	<u>AB</u>	<u>Mulla</u>	<u>Mulla</u>	<u>Mulla</u>	<u>Mulla</u>



Sr.no	Name of the students	11 Feb	12 Feb	13 Feb	14 Feb	15 Feb	16 Feb	18 Feb	18 Feb
1									
2	SWAMI TEJSWINI GURPADAYYA	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>	<u>Swami</u>
3	PAWAR MAYA JAYAPAL	<u>Maya</u>	<u>Maya</u>	<u>Maya</u>	<u>Maya</u>	<u>Maya</u>	<u>Maya</u>	<u>Maya</u>	<u>Maya</u>
4	BIRAJDAR RANI SURESH	<u>BS</u>	<u>BS</u>	<u>BS</u>	<u>BS</u>	<u>BS</u>	<u>BS</u>	<u>BS</u>	<u>BS</u>
5	GURAV PUJA KENCHAPPA	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>
6	MALI SHASHIKANT ANANDAMALI	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>	<u>Mali</u>
7	BIDRI BASAVARAJ SHRISHAIL	<u>BBS</u>	<u>BBS</u>	<u>BBS</u>	<u>BBS</u>	<u>BBS</u>	<u>BBS</u>	<u>BBS</u>	<u>BBS</u>
8	CHAVAN SARALA RAVASAHEB	<u>Chn</u>	<u>Chn</u>	<u>AB</u>	<u>Chn</u>	<u>Chn</u>	<u>Chn</u>	<u>Chn</u>	<u>Chn</u>
9	BAGELI MAHESH BALAGONDA	<u>Bml</u>	<u>Bml</u>	<u>Bml</u>	<u>Bml</u>	<u>Bml</u>	<u>AB</u>	<u>Bml</u>	<u>Bml</u>
10	BABAR SUPRIYA YUVARAJ	<u>BPA</u>	<u>BPA</u>	<u>P</u>	<u>BPA</u>	<u>BPA</u>	<u>BPA</u>	<u>BPA</u>	<u>BPA</u>
11	KHANDAGALE PRAJAKTA PANDIT	<u>KPP</u>	<u>KPP</u>	<u>KPP</u>	<u>AB</u>	<u>KPP</u>	<u>KPP</u>	<u>KPP</u>	<u>KPP</u>
12	JADGAV BHAGYASHREE TUKARAM	<u>JBT</u>	<u>JBT</u>	<u>JBT</u>	<u>JBT</u>	<u>JBT</u>	<u>AB</u>	<u>JBT</u>	<u>JBT</u>
13	ACHEGAVN MAHESH CHANDRAM	<u>AB</u>	<u>Mch</u>	<u>Mch</u>	<u>Mch</u>	<u>Mch</u>	<u>Mch</u>	<u>Mch</u>	<u>Mch</u>
14	AWAJI SANTHOSH	<u>Anji</u>	<u>Anji</u>	<u>Anji</u>	<u>Anji</u>	<u>Anji</u>	<u>Anji</u>	<u>Anji</u>	<u>Anji</u>



	MAHADEV AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI	AWAJI
15	JAGTAP JYOTI RAMESH	Joti	Joti	Joti	AB	Joti	Joti	Joti	AB	Joti	Joti	AB	Joti
16	HADAPAD DEEPALI SURESH	HD	HD	AB	HD	HD	AB	HD	HD	HD	HD	HD	HD
17	CHAVAN ASHVINI SAGUDAS	ASC	AB	ASC	ASC	AB	ASC	ASC	ASC	AB	ASC	ASC	AB
18	PATIL ANIL MARUTI	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
19	SUTAR SONALI SURESH	Sutar	Sutar	Sutar	Sutar	Sutar	Sutar	Sutar	Sutar	AB	Sutar	AB	Sutar
20	MULLA SALIM IMAM	Mulla	Mulla	AB	Mulla	Mulla	Mulla	Mulla	Mulla	AB	Mulla	Mulla	Mulla



|| Dhairyam Sarvatra Sadhanam ||
|| Dhairyam Sarvatra Sadhanam ||

Shri Shivalingeshwar Shikshan Sanstha's Sankh

Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

Tal.Jath, Dist.Sangli. 416 412. College Code : 616

Estd-19/7/2018(N.G.C.2018/N.M.V./100/18)M.C-4)

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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.CI@unishivaji.ac.in

Question Paper

Time – 10:30am To 12:00PM Max Marks- 50

Name of the Student		Marks Obtained	
Sign of Student		Total Marks	

Instructions

1. Attempt all Twenty Five (25) Multiple Choice Questions from the following.
2. Each MCQ carries two marks.
3. Choose correct alternative and write its alphabet (A/B/C/D) into the empty box In front of each question.

1. GST is one of the widely accepted indirect taxation system prevalent in more than.....
Countries across the globe.

- a) 140
- b) 160
- c) 170
- d) 190

2.Was first country to adopt GST as indirect system of taxation?

- a) France
- b) Germany



- c) UK
- d) India

3. GST has rolled out with effect from.....

- a) 01-07-2017
- b) 15-07-2017
- c) 01-04-2017
- d) 05-09-2017

4. GST is..... consumption tax.

- a) Origin based
- b) Destination based
- c) Purchase based
- d) Sales based

5. India has adopted..... Model of GST based on federal structure.

- a) Dual
- b) Single
- c) Triple
- d) None of the above

6. The GST is recommended by the..... Budget Management (FRBM), Act, 2003 on implementation of the Fiscal Responsibility and

- a) Kalka task force
- b) Chidambaram task force
- c) Jauntily task force
- d) none of the above

7. The first State which ratified the GST Bill in India.

- a) Kerala
- b) Bihar
- c) Jharkhand



d) Assam

8. The recommendation of the GST Council will be.....

A) Mandatory

b) Only advisory power

c) Mandatory and sometimes advisory

d) Mandatory on states only

9. What are different types of supplies covered under the scope of supply?

a) Supplies made without consideration

☒ b) Supplies made with consideration

c) Both of the above

d) None of the above

10. classification of certain transactions or activities as supply of goods or supply of service is given provided in.....

a) Schedule I

b) Schedule III

c) Schedule II

d) Section 8

☒ **11. Supply includes import of services for a consideration.....**

a) In the course or furtherance of business

b) Not in the course or furtherance of business

c) Whether or not in the course or furtherance of business

d) None of the above

12. Activities made or agreed to be made without a consideration covered in scope of Supply are specified in.....

a) Schedule 1

b) Schedule III

c) Schedule II

d) Section 8



13. Activities or transactions specified in..... goods nor a supply of services shall be treated neither as a supply of

- a) Schedule 1
- b) Schedule III
- c) Schedule II
- d) Section 8

14 Activities or transactions undertaken by the Central Government, a State Government or any local authority in which they are engaged as public authorities, as may be notified by the Government on the recommendations of the Council, shall be treated as.....

- a) Supply of goods
- b) Neither as supply of goods in a
- c) Supply of services
- d) Either as a supply of goods or as a supply of services

15. Transfer of the title in goods shall be treated as.....

- a) Supply of goods
- b) Neither as a supply of goods nor a supply of services.
- c) Supply of services
- d) Either as a supply of goods or as a supply of services

16. Transfer of right in goods or of undivided share in goods without the transfer of title There of shall be treated as.....

- a) Supply of goods
- b) Neither as a supply of goods nor a supply of services
- c) Supply of services
- d) Either as a supply of goods or as a supply of services

17. Intra state supply is liable to.....

- a) CGST
- b) SGST
- c) CGST and SGST
- d) IGST



18. The tax applicable to interstate supplies will be

- A) SGST only
- b) CGST only
- C) IGST only
- d) CGSTIGST

19. Supply of the following is not liable to CGST.....

- a) Alcoholic liquor for industrial consumption
- b) Alcoholic liquor for medicinal consumption
- ☒ c) Alcoholic liquor for human consumption
- d) Lottery

20. The central tax on the supply of.....shall be levied with effect from such date as may be notified by the Government on the recommendations of the council.

- a) Petroleum crude
- b) High speed diesel
- c) Motor spirit
- d) All of the above

21.....is the maximum rate prescribed under CGST Act, 2017

- ☒ a) 12%
- b) 28%
- c) 20%
- d) 40%

22.....Notifies the rate of central tax to be levied under CGST Act, 2017

- a) Central government
- b) State government
- c) GST Council
- d) Central government as per the recommendations of the GST council

23. What are the supplies on which reverse charge mechanism would apply?



- a) Notified categories of goods or services or both
- b) Inward supply of goods or services or both from an unregistered dealer
- c) Both of the above
- d) None of the above

24. Mr.Raman owner of car provided transport service to Mr Yash through SULA CAB ECO who is liable to pay GST?

- a) Mr.Raman
- b) Mr. Ash
- c) Sula cab
- d) None of the above

25. Works contract as defined in Section 2(119) of CGST Act, 2017, being composite supply shall be treated.....

- a) Supply of goods
- b) Neither as a supply of goods nor a supply of services
- c) Supply of services
- d) Either as a supply of goods oars a supply of services



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FINAL RUSULT

Sr.No	Students Name	Written Marks	Total marks	Result
1	SWAMI TEJSWINI GURPADAYYA	30	30	Pass
2	SUREKAR CHANDRIDA BASAPPA	36	36	Pass
3	PAWAR MAYA JAYAPAL	40	40	Pass
4	BIRAJDAR RANI SURESH	45	45	Pass
5	GURAV PUJA KENCHAPPA	46	46	Pass
6	MALI SHASHIKANT ANANDAMALI	30	30	Pass
7	BIDRI BASAVARAJ SHRISHAIL	41	41	Pass
8	CHAVAN SARALA RAVASAHEB	42	42	Pass
9	BAGELI MAHESH BALAGONDA	40	40	Pass
10	BABAR SUPRIYA YUVARAJ	30	30	Pass
11	KHANDAGALE PRAJAKTA PANDIT	36	36	Pass
12	JADGAV BHAGYASHREE TUKARAM	35	35	Pass
13	ACHEGAVN MAHESH CHANDRAM	31	31	Pass
14	AWAJI SANTHOSH MAHADEV	34	34	Pass
15	JAGTAP JYOTI RAMESH	32	32	Pass
16	HADAPAD DEEPALI SURESH	40	40	Pass
17	CHAVAN ASHVINI SAGUDAS	41	41	Pass
18	PATIL ANIL MARUTI	33	33	Pass
19	SUTAR SONALI SURESH	34	34	Pass
20	MULLA SALIM IMAM	35	35	Pass



SHIVALINGESHWAR SHIKSHAN SANSTHA

SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE COLLEGE
SANKH

TAL - JATH DIST- SANGLI.

(Affiliated to Shivaji University, Kolhapur)



DEPARTMENT OF Commerce

CERTIFICATE

This is to Certify that **Mr. /Ms. Mulla Salim Imam**.....has
successfully completed the GOODS AND SERVICE TAX at graduate
Department of Commerce in the academic year 2018-19


Head
Co-ordinator
Department of Commerce
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli


I/C Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412



INDEX
Interview Writing & Personality
Development
Year 2018-2019

Sr.no.	Content
1	Permission Letter
2	Invitation Letter
3	Notice
4	Meeting Notice
5	Syllabus
6	Objectives and Learning Objectives
7	Time table
8	List of participants
9	Attendance
10	Question Paper
11	Certificate

|| Dhairyam Sarvatra Sadhanam ||



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Short Term Course - 2018-19

Interview Writing & Personality Development

मुलाखत लेखन आणि व्यक्तिमत्व विकास

BOS and Experts

- | | |
|-----------------------|--|
| 1. Name of the Course | : Interview Writing & Personality Development |
| 2. BOS Members | : Prof. Mali. S. B. |
| 3. Guest & Expert | : Prof. Sonavane. L. S.
Prof. Kharat. P. K. |



|| Dhairyam Sarvatra Sachanam ||



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Course Structure

Eligibility : 12th Pass
Duratio : 1 Months
Examination Pattern : Theory : 50 Marks

.....
Total : 50 Marks

Faculty : Prof. Mali. S. B.

Co-ordinator : Head,U.G. Department of Marathi
Shri. R.K.Patil Arts, Commerce and Science College, Sankh.



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Syllabus

Unit No.	Unit Name	Lecture Allotted
1	मुलाखत लेखनाची संकल्पना व स्वरूप	8 Lectures
2	मुलाखत लेखनाचे प्रकार व स्वरूप	8 Lectures
3	मुलाखत लेखनाची माध्यमे	8 Lectures
4	मुलाखत लेखन व व्यक्तिमत्व विकास	8 Lectures
	Total Lectures	32 Lectures

संदर्भ ग्रंथ :

- 1) संदीप सांगळे : व्यावहारिक उपयोजित मराठी आणि प्रसार माध्यमे, डायमंड पब्लिकेशन्स, पुणे
- 2) त.रा. नासिराबादकर: व्यावहारिक मराठी, फडके प्रकाशन, आठवी आवृत्ती
- 3) संपादक डी. कल्याण काळे, डी. अंजली सोमण भाषांतर मीमांसा, प्रतिमा प्रकाशन, पुणे
- 4) डॉ. उमा कुलकर्णी भाषांतर मीमांसा, कन्नड मराठी अनुवाद: एक अनुभव
- 5) यशोदा भागवत जाहिरातींच्य जग, मौज प्रकाशन दुसरी आवृत्ती
- 6) आनंद पाटील: सृजनात्मक लेखन, पदयागंधा प्रकाशन, पुणे
- 7) संजय लांडगे उपयोजित मराठी, दिलीपराज प्रकाशन, पुणे
- 8) केशव जुपे: माध्यमांची भाषा, लेखन कौशल्य, चिन्मय प्रकाशन, औरंगाबाद
- 9) डॉ. स्नेहल तावरे व्यावहारिक मराठी, स्नेहवर्धन प्रकाशन, पुणे
- 10) मराठी भाषा उपयोजन आणि सर्जन दूर शिक्षण केंद्र, शिवाजी विद्यापीठ, कोल्हापूर
- 11) मो.रा. बाळंबे सुगम मराठी व्याकरण लेखन, मराठी शुद्धलेखन प्रदीप, फडके प्रकाशन, कोल्हापूर



[[Dhairyam Sarvatra Sadhanam]]



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Time – Table

Date:-04/02/2019 to 09/03/2019

Sr. No	TIME	M	T	W	T	F	S
1	01.00 to 02.00	Mal. S.B.	Mal. S.B.	Mal. S.B.	Mal. S.B.	—	—
1	01.00 to 02.00	—	—	—	—	Banerjee L.S.	LS.

Guest Lecture

Prof.Sonavane L.S.




Head
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Shri R.K.Patil Arts, Commerce
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NOTICE

दि. 27/01/2019

बी. ए. मराठी विभागातील सर्व विद्यार्थ्यांना कळविण्यात येते की, विभागातर्गत शॉर्ट टर्म कोर्स सुरु असून या कोर्सचे तास दि. 04/02/2019 पासून सुरु होत आहेत. याचे वेळापत्रक मराठी विभागात लावण्यात आले आहे. याची सर्व विद्यार्थ्यांनी नोंद घ्यावी.



Head
Department of Marathi
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Tal. Jath, Dist. Sangli

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Student Attendance.

SR.NO	STUDENT NAME
1	Ghode Prafull Prakash
2	Banne Vishal Martand
3	Gopane Siddhu Madhu
4	Gurav Anand Bhimanna
5	Karade Shekhar Amagonda
6	Karande Badal Annasaheb
7	Khot Pravin Tanaji
8	Lokhande Anil Tanaji
9	Mane Rajakumar Shivagonda
10	Mane Sundardas Babasaheb
11	Misal Prashant Subhash
12	Pandhare Vishnu Namdev
13	Sannake Kiran Ashok
14	Tambe Mailu Satu
15	Vhonakhande Anand Mahadev
16	!Buhar Poonam Ramu
17	Kamble Manjunath Mahadev
18	!Koli Pooja Ramchandra
19	Mane Vishal Dattatray
20	!Shinde Sujata Sunil
21	Aiwale Sitaram Vitthal
22	Jagtap Anil Harishchandra
23	Karade Tammaray Birappa
24	Karande Parameshwar Vasant

25	Mali Siddhu Chanappa
26	Munje Akshata Birappa
27	Narute Maruti Girjappa
28	Pandhare Santosh Shivaji
29	Pandhare Shivaji Birappa
30	Pandhare Subhash Kondiba
31	!Parase Dipa Rajaram
32	Patil Basavaraj Sanjay
33	!Ranadive Supriya Vijay
34	Sarje Sumil Mallappa
35	Sawant Pramod Shankar
36	Shendge Changdev Gulab
37	Shinde Rohan Kashinath
38	Vagare Dayaneshwar Bandu
39	Vhanakhande Prashant Mahadev
40	Pandhare Bapu Laxman
41	Lohar Sagar Siddhu
42	Turai Devappa Laxman
43	!Desai Priyanka Ganapati
44	!Honakande Akshata Sadashiv
45	Chavan Vijaykumar Hanamant
46	!Havgoni Rajshari Bhimrao
47	!Hpparakar Sakhubai Arjun
48	!Kanashetti Chetana Chandrashekhar
49	!Mulla Shabana Mubarak
50	!Naik Pramila Prakash
51	!Narale Pallavi Dnyande
52	!Navale Pallavi Krishnadeo
53	Sarje Sagar Malhari
54	Shendage Abhijit Amogsidha
55	!Karande Dipali Maryappa



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मुलाखत लेखन आणि व्यक्तिमत्व विकास

EXAM NOTICE

दि. 12/03/2019

बी. ए. मराठी विभागातील सर्व विद्यार्थ्यांना कळविण्यात येते की, विभागातर्गत शॉर्ट टर्म कोर्सची परीक्षा दि.18/03/2019 पासून सुरु होत आहे. परीक्षेचे वेळापत्रक मराठी विभागात लावण्यात आले आहे. याची सर्व विद्यार्थ्यांनी नोंद घ्यावी.



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मुलाखत लेखन आणि व्यक्तिमत्व विकास

EXAM TIME - TABLE

Date	Time	Exam
18/03/2019	02.00 to 04.00	Theory



[Signature]
Head
Department of Marathi
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Interview Writing & Personality Development

मुलाखत लेखन आणि व्यक्तिमत्व विकास

Result 2018-19

SR.NO	STUDENT NAME	Theory 50	Result
1	Ghode Prafull Prakash	40	Pass
2	Banne Vishal Martand	44	Pass
3	Gopane Siddhu Madhu	42	Pass
4	Gurav Anand Bhimanna	25	Pass
5	Karade Shekhar Amagonda	38	Pass
6	Karande Badal Annasaheb	38	Pass
7	Khot Pravin Tanaji	45	Pass
8	Lokhande Anil Tanaji	39	Pass
9	Mane Rajakumar Shivagonda	42	Pass
10	Mane Sundardas Babasaheb	40	Pass
11	Misal Prashant Subhash	42	Pass
12	Pandhare Vishnu Nandev	38	Pass
13	Sannake Kiran Ashok	40	Pass
14	Tambe Mallu Satu	25	Pass
15	Vhonakhande Anand Mahadev	42	Pass
16	!Babar Poonam Ramu	45	Pass
17	Kamble Manjunath Mahadev	38	Pass
18	!Koli Pooja Ramchandra	40	Pass
19	Mane Vishal Dattatray	25	Pass
20	!Shinde Sujana Sunil	42	Pass
21	Aiwale Sitaran Vitthal	40	Pass

22	Jagtap Anil Harishchandra	39	Pass
23	Karade Tammaray Birappa	39	Pass
24	Karande Parameshwar Vasant	45	Pass
25	Mali Siddhu Chanappa	39	Pass
26	Munje Akshata Birappa	39	Pass
27	Narute Maruti Girjappa	39	Pass
28	Pandhare Santosh Shivaji	45	Pass
29	Pandhare Shivaji Birappa	40	Pass
30	Pandhare Subhash Kondiba	39	Pass
31	!Parase Dipa Rajaram	42	Pass
32	Patil Basavaraj Sanjay	45	Pass
33	!Ranadive Supriya Vijay	39	Pass
34	Sarje Sunil Mallappa	25	Pass
35	Sawant Pramod Shankar	42	Pass
36	Shendge Changdev Gulab	40	Pass
37	Shinde Rohan Kashinath	45	Pass
38	Vagare Dayaneshwar Bandu	39	Pass
39	Vhanakhande Prashant Mahadev	39	Pass
40	Pandhare Bapu Laxman	40	Pass
41	Lohar Sagar Siddhu	25	Pass
42	Turai Devappa Laxman	42	Pass
43	!Desai Priyanka Ganapati	45	Pass
44	!Honakande Akshata Sadashiv	48	Pass
45	Chavan Vijaykumar Hanamant	45	Pass
46	!Havgoni Rajshari Bhimrao	40	Pass
47	!Hpparakar Sakhubai Arjun	25	Pass
48	!Kanasetti Chetana Chandrashekhar	42	Pass
49	!Mulla Shabana Mubarak	40	Pass
50	!Naik Pramila Prakash	25	Pass
51	!Narale Pallavi Dnyande	42	Pass
52	!Navale Pallavi Krishnadeo	40	Pass
53	Sarje Sagar Malhari	25	Pass
54	Shendage Abhijit Amogsidha	42	Pass
55	!Karande Dipali Maryappa	40	Pass



|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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U.G.Department of Marathi

(Self-Financed certificate course)

Short Term Course- 2018-19

Interview Writing & Personality Development

मुलाखत लेखन आणि व्यक्तिमत्व विकास

अहवाल

मराठी विभागाने २०१८-१९ या वर्षासाठी 'मुलाखत लेखन आणि व्यक्तिमत्व विकास' या विषयात अँड ऑन कोर्स आयोजित केला होता. या अभ्यासक्रमासाठी या वर्षी ५५ विद्यार्थ्यांना प्रवेश देण्यात आला. 'मुलाखत लेखन आणि व्यक्तिमत्व विकास' या विषयाचे ज्ञान वाढवण्याच्या उद्देशाने हा अभ्यासक्रम आयोजित करण्यात आला होता. 'मुलाखत लेखन आणि व्यक्तिमत्व विकास' या विषयाचे महत्त्व विद्यार्थ्यांना मिळाले. हा अभ्यासक्रम यशस्वीरित्या पार पडला ज्यामध्ये वेळापत्रकानुसार ९२% व्याख्यान झाली. या परीक्षेत १००% विद्यार्थी उपस्थित होते. यशस्वी विद्यार्थ्यांना प्रमाणपत्र वाटप करण्यात आले.



Head
Department of Marathi
Shri R.K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli

SHIVALINGESHWAR SHIKSHAN SANSTHA, S SANKH
**SHRI R.K.PATIL ARTS, COMMERCE AND SCIENCE
COLLEGE, SANKH.**

TAL - JATH DIST- SANGLI.
(Affiliated to Shri Chhatrapati Shivaji Maharaj University, Kolhapur)


DEPARTMENT OF MARATHI

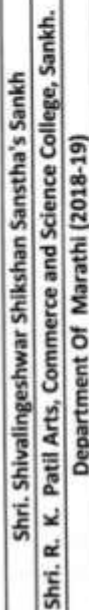


CERTIFICATE

This is to Certify that **Mr. /Ms. Honakande Akshata Sadashiv** has successfully completed the "Certificate Course Interview Writing & Personality Development Department of Marathi in 1st Class in the academic year 2018- 19.


Co-ordinator


P. S. Biradar K. S.
I/C Principal
I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

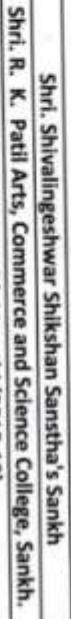


Interview Writing & Personality Development

Student Attendance

SR.NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Ghode Vishful Prakash	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
2	Bhane Vishal Marud	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
3	Gopane Siddhu Madhu	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
4	Gurav Anand Bhimanna	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
5	Karade Shekhar Anandgoda	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
6	Karande Bhalal Anantashib	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
7	Khot Pravin Tanaji	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
8	Lokhande Anil Tanaji	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
9	Mane Rajakumar Shivagoda	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
10	Mane Sundarsh Babushab	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
11	Misal Prashant Subbath	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
12	Pandhare Vishnu Narodev	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
13	Sarnaik Kiran Ashok	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
14	Tambre Manu Satu	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
15	Vhorakhande Anand Mahadev	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
16	Bahar Poonam Ramu	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
17	Kaushle Manjunath Mahadev	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
18	Ikoli Pooja Rameshchandra	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
19	Mane Vishal Dattatray	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
20	Shinde Sujata Sumil	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
21	Aiwale Sitaran Vitthal	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
22	Jagtap Anil Harishchandra	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
23	Karade Tannamary Birappa	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
24	Karande Parvatechwar Vasant	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
25	Mali Siddhu Chanaappa	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
26	Manjje Akshata Birappa	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
27	Narute Marut Gijappa	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
28	Pandhare Santosh Shivaji	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200

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Shri. Shivalingeshwar Shikshan Sanstha's Sanakh
Shri. R. K. Patil Arts, Commerce and Science College, Sanakh.
Department Of Marathi (2018-19)
Interview Writing & Personality Development

Interview Writing & Personality Development
Student Attendance

[illegible]

[illegible]

[[Dhairyam Sarvatra Sadhanam]]



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Email : College : rkpcollegesankh@gmail.com *** Email : Vidyapeetha : rkp616.Ci@unishivaji.ac.in

Add on Certificate Course

On

Bee keeping



Organised by

Department of Zoology

Course incharge

Mr.Mali.G.S

Course duration- 9 Oct 2018 to 10 Nov 2018

|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Add on certificate course on Bee keeping

Year: 2018-2019

Sr.no.	Content
1.	Permission Letter
2.	Invitation Letter
3.	Notice
4.	Meeting Notice
5.	Syllabus
6.	Objectives and Learning Objectives
7.	Time table
8.	List of participants
9.	Attendance
10.	Question Paper
11.	Certificate

|| Dhairyam Sarvatra Sadhanam ||



Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.
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Ref.No.

Date :20/09/2018

To,

The Principal,

Shri. R.K.P. Art, Commerce

and Science College, Sankh.

Tal-Jath, Dist- Sangali.416412

Subject: Regarding permission to commencement of certificate
Course in Certificate **Course of Bee keeping.**

Respected sir,

With the reference to above subject, our Zoology department is going to
conduct certificate course in Certificate Course of **Bee keeping.** for B. Sc.
Students in this year academic year (2018-19). So, I request you to give us
permission to conduct above said course.

Thanking you,

permission
Granted
20/9/18




Yours Faithfully

Department of Zoology,
Shri RK Patil ACS College Sankh,

Tal- Sankh, Dist-Sangli

Head

Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Shri Shivalingeshwar Shikshan Sanstha's Sankh
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To

Mr. M. B. Sajjan,

HOD of Zoology Department ,

R.R college Jath

A/P- Jath, Tal- Jath

Dist- Sangli

Subject: Invitation as a resource person for certificate course in "Bee keeping".

Respected Sir ,

I am pleased to invite you to conduct certificate course in "Bee keeping". for academic 2018-19 under Department of Zoology from Date 09/10/18 to 10/11/2018.

We look forward your presence and guidance.

Thanking you


your faithfully

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli





|| Dhairyam Sarvatra Sadhanam ||

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Notice

Date-04-10-2018

All students of B.Sc are here by informed that Department has organised " Add on Certificate Course on **Bee keeping**" from. All students are informed that they should remain present for course on time. It may clearly noted that will be collected from absent students.




Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



|| Dhairyam Sarvatra Sadhanam ||
Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Zoology

Bee keeping

Meeting Notice

*The meeting of the members of BOS in certificate course **Bee Keeping** is conveyed on 22 September 2018 for the preparation of syllabus.*

Sr.no.	Name	Position	Signature
1	Mr.K.S. Biradar	Chairman	
2	Mr.Mali.G.S	Co-Ordinator	
3	Mr.Sayyad S.A.	Member	
4	Mr.Patil.S.B.	Member	
5	Mr.Haladakki A.S.	Member	

HOD

Head
 Department of Zoology
 Shri R. K. Patil Arts, Commerce
 & Science College, Sankh
 Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
 Shri R. K. Patil Arts, Commerce Science College,
 Sankh, Tal. Jath, Dist. Sangli 416 412

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Shri Shivalingeshwar Shikshan Sanstha's Sankh
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Department of Zoology

Bee keeping

Academic Year 2018-19

Minutes of Meeting

The meeting of the members of BOS in certificate course in **Bee keeping** Introduction of is held on 24 September 2018 for the preparation of course syllabus. The following members of present and prepared the syllabus of the above course and submitted to Co-Ordinator of Shri R.K.Patil ACS College Sankh.

Sr.no.	Name	Position	Signature
1	Mr. K.S Biradar	Chairman	
2	Mr.Mali.G.S	Co-Ordinator	
3	Mr.Sayyad S.A.	Member	
4	Mr.Patil.S.B.	Member	
5	Mr.Haladakki A.S.	Member	

HOD

Head
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal. Jath, Dist. Sangli



Principal

I/c. Principal,
Shri R. K. Patil Arts, Commerce Science College,
Sankh, Tal. Jath, Dist. Sangli 416 412

***Skill based Certificate Course on
Bee Keeping***



Syllabus Theory

Unit.1

Apiculture development in India .Role of central honey bee research and training institute .

Introduction to apiculture:scope and Importance

Unit-2

Honey bee morphology and anatomy and life cycle

Honey species and casts ,origin systematic and distribution of honeybees

Unit-3

Social organisation in Honeybees:colony life and social organisation communication in honeybees.

Bee enemies and disease-An introduction, bee enemies- wax moth .ants, wasps ,Microorganisms .Pests,Diagnosis and Identification.

Bacterial, viral, fungal protozoan disease of honey bees.

Unit-4

Bee keeping : Tools and Equipment's

Introduction to types of bee boxes

Unit-5

Honey-Processing and Bee Hive Products

Honey-its properties and application in various fields

Economics in small scale and large scale bee keeping .Economic value of commercial Bee keeping.

Practicals

- 1.Setting and Maintenance of Bee keeping unit.*
- 2.Setting and Maintenance of Honey Processing unit.*
- 3.Breeding and Multiplication of various bees.*
- 4.Propagation of bee plants*



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Objectives:-

- To provide basic knowledge in the field of Biodiversity, Conservation and Wildlife Management
- To generate connection between part professional organizations working in the field of conservation and environment protection.
- To provide an alternate avenue to students
- To create awareness about Biodiversity and Nature Conservation

Course Outcomes :-

By the completion of the course the students should able to –

- Understand the basic life cycle of the honeybee.
- Learn beekeeping tools and equipment.
- Manage beehives for honey production and pollination.
- Learn honey bee diseases and pests.
- Harvest and marketing of honey and other bee products.

egs
Incharge Certificate Course



egs
Department of Zoology
Head
Sh. Den... Head Zoology
Sh. Den... nkh...
Tal. Jath, Dist. Sangli
Tal. Jath, Dist. Sangli



[[Dhairyam Sarvatra Sadhanam]]

Shri Shivalingeshwar Shikshan Sanstha's Sankh
Shri.R.K.Patil Arts, Commerce and Science College, Sankh.

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Department of Zoology

Year: 2018-2019

Add on Certificate Course

On

Bee Keeping

Time Table-

Theory and Practical

Time	Mon	Tues	Wed	Thurs	Fri	Sat
1.00-2.00 Theory	Mr.Mali .G.S	Mr.Mali.G. S	Mr.Mali. G.S	Mr.Mali.G.S	Mr.Mali. G.S	Mr.Mali.G.S
2.15-3.15 Practical	Mr.Mali .G.S	Mr.Mali.G. S	Mr.Mali. G.S	Mr.Mali.G.S	Mr.Mali. G.S	Mr.Mali.G.S



gks
Fixed
Department of Zoology
Shri R. K. Patil Arts, Commerce
& Science College, Sankh
Tal, Jath, Dist, Sangli

Registration Student List

Add on Certificate Course On Bee Keeping

Sr. no.	Name of the students
1.	HATTARAKI SACHIN MAHADEV
2.	JADHAV NIKHIL SANJAY
3.	CHAVAN VAISHAIL PANDURANG
4.	BIRAJADAR RAHUL SHRISHAIL
5.	DAPHALE AKSHAY SIDDHANA
6.	BIRADAR SOMANING SHILISIDDA
7.	SHINDE SANI AUDUMBAR
8.	INGOLE DEEPAK BAVUSAHEB
9.	HONAMORE DHANAMMA SHRIKANT
10.	KULAL KOMAL MARUTI
11.	KOTYAL VEENA ASHOK
12.	POOJARI PRIYANKA ARJUN
13.	KULAKARNI GAYATRI SUNIL
14.	UMARANI VIDYA BALASAHEB
15.	WAGOLI SUREKHA SIDDAPPA
16.	BIRADAR MADAGONDA OGEPPA
17.	DESAI PRAMOD GANAPATI
18.	BIRADAR AKSHATA RAJENDRA
19.	NIKAM ARCHANA RAMCHANDRA
20.	WALIKAR KAVITA ARJUN
21.	HAKKI JAKKAPPA SURESH
22.	BASARGI SACHIN AMBURAYA
23.	ELAGI ASHWINI SHIVANAND
24.	PUJARI CHIDANAND MALLIKARJUN
25.	AWATI TEJASHRI DEEPAK
26.	ARALI DHANESHWARI SHRIKANT
27.	GHAGARE SIDDHALING CHANDU
28.	CHAVAN POOJA RAVASAHEB
29.	MISALE SONALI SUKHADEV



[illegible]



Dhairyam Savatra Sadhanam

Shri Shivalingeswar Shikshan Sanstha's Sankh

Shri. R.K. Patil Arts, Commerce and Science College, Sankh

Department of Zoology

Add on Certificate Course On Bee Keeping

Attendance

[illegible]

Dhairyam Savatra Sadhanam

Shri Shivalingeshwar Shikshan Sanstha's Sankh

Shri.R.K.Patil Arts,Commerce and Science College ,Sankh

Department of Zoology

Question Paper

Add on Certificate Course On Bee Keeping

Marks:30

Instructions

- 1.All the questions are compulsory.*
- 2.Questions to the right indicate full marks.*
- 3.Draw neat and labelled diagrams wherever necessary.*

Q.1 .Long Questions.[any2]

- a.Describe Social Organisation of Honeybees.*
- b.Describe Bee enemies ,diagnosis and Identification.*
- c.Explain tools and Equipment's used for Bee Keeping.*

q.2. Write shorts notes of the following.[any2]

- a.Types of Bee boxes*
- b.Honey Processing and Bee Hive products*
- c.Honey bee species*



Dhairyam Savatra Sadhanam

Shri Shivalingeshwar Shikshan Sanstha's Sankh

Shri.R.K.Patil Arts,Commerce and Science College ,Sankh

Department of Zoology

Report

Skill based Certificate Course on Bee Keeping

Increasing demand for honey and its by products – bee wax, royal jelly, etc. in various food, pharmaceutical and cosmetic industries has an expanding market in developing as well as developed countries.

Apiculture, The main source of honey, is a low maintenance and cost effective process, Associated intimately with agriculture and forest, the practice of apiculture not only yields products of economic value, but also helps to sustain biodiversity. Apiculture has an important role to play in the self-employment sector in the present scenario.

Department of Zoology has offered this course for B.Sc II Students for increasing the employment opportunity in rural sector and thus enhancing the ancillary income of the beekeepers and farmers. This course was conducted during the 9th October to 10 November 2018. For this course 29 students have been enrolled. During this period the lectures and Practicals were conducted by resource faculties. Mr. Mali.G.S conducted the practicals and theory periods.

*Specific outcome of beekeeping as an income generation activity
Bees play an important role in the pollination of many flowering plants, thus increasing the yield of certain crops such as sunflower and various fruits. Honey is a delicious and highly nutritious food.*



SHIVALINGESHWAR SHIKSHAN SANSTHA

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DEPARTMENT OF Zoology



CERTIFICATE

This is to Certify that **Mr. /Ms. POOJARI PRIYANKA ARJUN** has successfully completed the Add on certificate course on **"Bee Keeping"** at Department of Zoology in the academic year 2018- 19.


Co-ordinator


I/C Principal
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