



Taranath Shikshana Samsthe
Laxmi Venkatesh Desai college, Raichur

Affiliated to Raichur University, Raichur & Re-accredited by NAAC with B Grade




Index for Add-On Course

Title: APICULTURE

Academic Year: 2020

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Co-ordinator
Internal Quality Assurance Cell (IQAC)
Laxmi Venkatesh Desai College, RAICHUR-03.


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



Importance of beekeeping History of beekeeping Beekeeping - As a hobby - Additional income source (Side line beekeeping) As a profession (Commercial beekeeper) Qualities of a beekeeper How to be a quality beekeeper Types of bees found in India Importance of pollination.

Different Method of Beekeeping

gobuzz SMART BEEHIVE MONITORING SYSTEM

Traditional Method	Modern Methods
Clay Pots	Hive Traps
Tree Trunks	Thermosolar Hive
Floor Board	Bee Smart
Hive Frame	BuzzBox
Wall Hives	Flow Hive

Department of Zoology

Introducing
 Add-on course

On
“APICULTURE”

For 30 Hours

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

Course Start Date: 10-12-2020.



A warm welcome to all the students & staff

Dr. Malkanna
 Dr. Malkanna
 Assoc Prof & HOD

Co-ordinator
 Quality Assurance Cell (IQAC)
 Laxmi Venkatesh Desai College, RAICHUR-03.
 Department of Zoology

Dr. Venkatesh B. Devaru
 Dr. Venkatesh B. Devaru
 PRINCIPAL
 L.V.D. College, RAICHUR-03.

OBJECTIVE OF THE COURSE

- To learn about life history and social structure of honey bee species
- To study bee rearing and farming methods and the equipment involved.

LEARNING OUTCOMES

- Ability to understand and describe the life stages and social organization of honey bee species.
- Ability to correctly explain and perform bee rearing, farming and harvesting practices.

①

Date: 18.11.2020

To
The Principal,
LVD College, Raichur.

From
Head of Department,
Department of Zoology

Respected Sir,

Sub: Permission to start an Add - On course.

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

Thanking You,

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

Yours Faithfully
[Signature]
HO/D

Head of the Department Zoology

HO/D



TARANATH SHIKSHANA SAMSTHE

LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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

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

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

BOARD OF STUDIES MEETING INVITATION Date: 30-12-2020

Respected Sir/ Madam,

Department of Zoology

Board of meeting which has been scheduled on 30th December 2020 in the Department of Zoology at 10.30 AM. I would like to invite all for BOS meeting to give your valuable suggestion on curriculum and syllabus.

With regards,


HoD

Department of Zoology
Head of the Department Zoology



TARANATH SHIKSHANA SAMSTHE



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Website: www.lvdcollege.com

BOARD OF STUDIES MEETING-MINUTES

Date: 30-12-2020

Department of Zoology

Board of meeting which has been scheduled on 30th December 2020 in the Department of Zoology at 10.30 AM and the discussion are recorded.

Agenda

1. To approve the panel of BOS Chairman, External and Internal members for Add-on course.
2. To revise the syllabus.

Meeting minutes

1. BOS board members reviewed the feedback analysis report of all the stalk holders.
2. The reports of Department Advisory Committee were taken into consideration for the BOS meeting.
3. Members reviewed and revised the curriculum and syllabus for Add-on course "APICULTURE".
4. The parameters considered for revision
 - a. Self employment and entrepreneurship.
 - b. To aware commercially valuable by-products

A detail of the course revisions was done.

The above recommendations are submitted for the approval in the Academic council meeting.

Praveen
Head of Department
Department of Zoology
Laxmi Venkatesh Desai College
Raichur



TARANATHI SHIKSHANA SAMSTHE



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Date: 30-12-2020

ORDER

Sub: Meeting of Board of Studies members

A meeting of the following BOS constituted is hereby convened on 30-12-2020 at 10.30 AM in the Department of Zoology, L.V.D College, Raichur.

BOARD OF APPOINTMENT OF BOS MEMBERS FOR THE ADD-ON COURSE "APICULTURE"

Sl. No	Name of the Faculty	Designation	Sign
1	Prof. Arjumand Azher Head of the Department Department of Studies and Research In Zoology Govt. College (Autonomous) Kalaburagi- 585103	Chairman	 HOD DEPT OF STUDIES AND RESEARCH IN ZOOLOGY GOVT. COLLEGE, KALABURAGI
2	Mr. Rajesh. M Assistant Professor Department of Zoology G. F.G College, Sindhanur	External Member	
3	Dr. Shivaraj Y Assistant Professor Department of Zoology L.V.D College, Raichur	Internal Member	

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

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



TARANATH SHIKSHANA SAMSTHE
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
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Dr. Venkatesh B. Devaru, *M.Sc., Ph.D., MBA.*
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Ph: (08532)-240286, 240707
Fax: + 918532 240707
E-mail: lvdrer@gmail.com
Website: www.lvdcollege.com

Date: 18-12-2020

To,

Prof. Arjumand Azher

Head of the Department

Department of Studies and Research in Zoology,

Govt. College (Autonomous),

Kalaburagi- 585103

Sub: Invitation for Board of Studies meeting as Chairman on 30th December 2020 regarding.

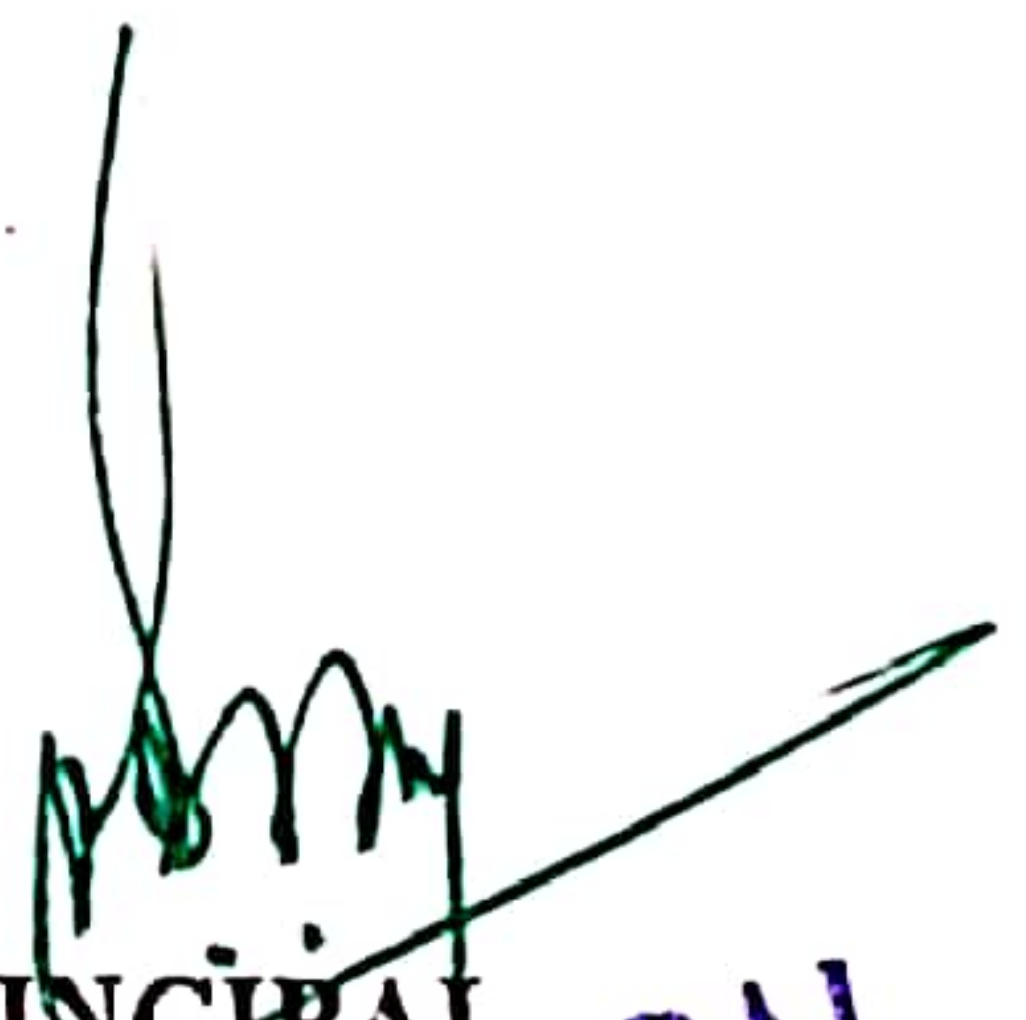
Respected sir,

With respect to the above cited subject, we take privilege in inviting you for the Board of Studies Meeting as Chairman for Add-on course "APICULTURE" which will be conducted on 30th December 2020 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2020-21. In this regard, we request for your valuable suggestion in revising the Curriculum & Syllabus based on latest technology which can help the student's community to shape themselves for their bright future. Hence, kindly accept and confirm your visit for attending the Board of Studies meeting. Kindly confirm your visit by informing to the Principal.

With Warm Regards


HoD

Head of the Department Zoology
HoD


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



TARANATH SHIKSHANA
LAXMI VENKATESH DESAI COLLEGE, RAICHUR
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SAMSTHE

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

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E-mail: lvdrccr@gmail.com
Website: www.lvdcollege.com

Date: 18-12-2020

To,

Mr. Rajesh. M

Assistant Professor

Department of Zoology

G. F.G College, Sindhanur

Sub: Invitation for Board of Studies meeting as External Member on 30th December 2020 regarding.

Respected sir,

With respect to the above cited subject, we take privilege in inviting you for the Board of Studies Meeting as External Member ember for Add-on course "APICULTURE" which will be conducted on 30th December 2020 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2020-21. In this regard, we request for your valuable suggestion in revising the Curriculum & Syllabus based on latest technology which can help the student's community to shape themselves for their bright future. Hence, kindly accept and confirm your visit for attending the Board of Studies meeting. Kindly confirm your visit by informing to the Principal.

With Warm Regards

HoD

Head of the Department Zoology

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

Date: 23-12-2020

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

Respected Sir,

Sub: Acceptance to be a Member of BOS.

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

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

Thanking You,

Yours Sincerely



Date: 26-12-2020

To
The Principal,
LVD College,
Raichur.

Respected Sir,

Sub: Acceptance to be the chairman of BOS.

With reference to the above-cited subject, Prof. Arjumand Azher Head of the Department, Department of Studies and Research in Zoology, Govt. College (Autonomous), Kalaburagi. I received invitation letter to be a Chairman of BOS, for the Add-on Course to be conducted by your college.

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

Thanking You,

Yours Sincerely





TARANATH SHIKSHANA SAMSTHE



LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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DEPARTMENT OF ZOOLOGY

NOTICE

Based on the feedback analysis and Suggestion of students, college has introduced an Add-on course "APICULTURE" with the duration of 30 hrs. Since students are eligible to get enrolled. After the completion of the course the beneficiaries get good scope on employability. The total seats are restricted to 30 only.

Interested students register their name to the program co-coordinator on or before 3-12-2020.


PRINCIPAL

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E-mail: lvdrccr@gmail.com
Website: www.lvdcollege.com

Date: 18/11/2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add-on course on "APICULTURE" with the duration of 30 hours introduced in 2020. The said programme is apart from the existing course curriculum.

Head of the Department

Principal

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

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

(11)

DEPARTMENT OF ZOOLOGY
Semester time table for the year 2020-21

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

[Handwritten Signature]

HEAD OF THE DEPARTMENT
Head of the Department Zoology

[Handwritten Signature]
PRINCIPAL
PRINCIPAL
L.V.D. College, RAICHUR-03.

Laxmi Venkatesh Desai College, Raichur
 Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade
 Attendance Sheet: 2020-2021

(2)

Department of Zoology																																	
Class:			Course title: APICULTURE																Faculty Name: Dr. SHIVARAJ Y														
Sl.No	Register No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			10/11/20	11/12/20	16/12/20	17/12/20	18/01/20	23/12/20	24/12/20	30/12/20	31/12/20	1/1/21	6/1/21	7/1/21	8/1/21	13/1/21	15/1/21	20/1/21	21/2/21	22/1/21	27/1/21	28/1/21	29/1/21	3/2/21	5/2/21	14/2/21	11/2/21	13/2/21	17/2/21	18/1/21	23/2/21	24/2/21	25/2/21
1	S2068653	Nisha	P	A	P	P	A	P	P	A	A	A	P	A	P	P	A	P	A	P	A	A	P	A	A	P	P	P	A	P	A	P	A
2	S2068723	Siri	A	P	A	P	P	P	A	P	P	P	P	P	A	P	P	A	P	A	P	P	P	A	P	A	P	A	A	P	A	P	A
3	S2068730	Sunita	P	A	P	P	P	P	P	P	A	P	A	A	P	P	P	A	A	P	P	P	A	A	P	P	A	P	P	P	P	A	A
4	S2068735	K Deepa	P	P	A	P	P	A	A	P	A	P	A	P	P	A	P	A	P	P	P	P	P	P	P	P	A	P	A	P	A	P	A
5	S2068742	Pavan Kumar	P	P	P	P	A	P	P	A	A	A	P	P	P	P	A	P	P	A	A	P	P	A	A	P	P	P	P	P	P	A	P
6	S2068866	Bhavana	A	P	P	A	P	P	A	A	A	P	P	A	P	P	A	A	P	P	A	P	P	P	P	A	A	P	P	P	P	A	P
7	S2068940	Mounika	P	P	A	P	A	P	P	P	A	A	P	P	A	A	A	P	A	P	A	A	P	A	P	P	P	A	P	A	P	P	P
8	S2068030	B Shruthi	P	A	P	P	P	P	P	A	A	A	P	P	P	A	P	A	A	A	P	A	P	A	P	A	A	P	A	P	A	P	A
9	S2068037	Venkatesh P	P	P	A	A	A	P	A	P	P	P	A	A	P	A	P	P	P	A	P	P	P	P	A	P	P	A	A	P	P	P	P
10	S2068006	Mahalaxmi	A	A	P	P	P	P	P	A	P	P	A	P	A	P	A	A	P	P	A	A	A	P	A	P	P	P	P	P	P	A	P
11	S2068900	Sanjana	P	A	P	A	P	P	P	P	P	A	P	P	A	P	P	P	A	A	P	P	A	P	A	A	P	P	A	P	A	A	A
12	S2068870	Hrithika	P	A	P	P	P	P	P	A	P	P	A	P	P	P	A	P	P	P	P	A	P	P	P	P	A	A	A	A	P	P	P

Signature of Faculty

Signature of HOD

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

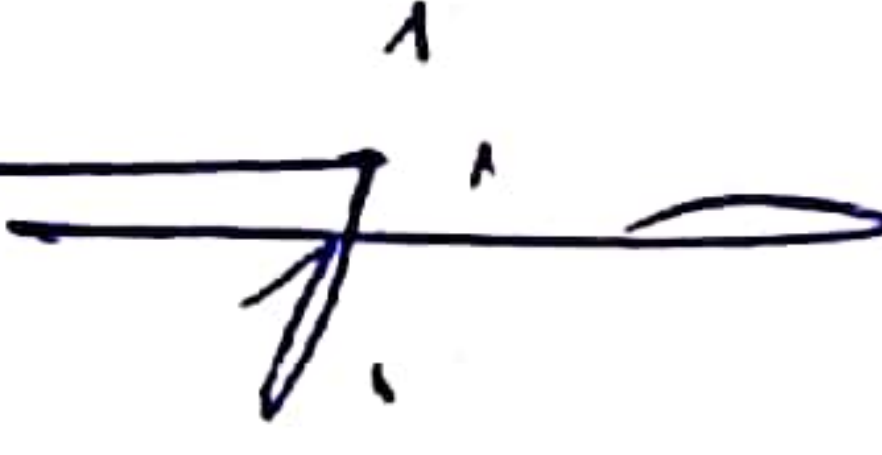
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Laxmi Venkatesh Desai College, Raichur
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 Attendance Sheet: 2020-2021

(6)


Department of Zoology																																	
Class:			Course title: APICULTURE															Faculty Name: Dr. SHIVARAJ Y															
Sl.No	Register No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
			12/1/2	11/1	14/1	17/1	18/1	23/1	24/1	30/1	31/1	1/1	1/1	4/1	8/1	13/1	15/1	20/1	24/1	27/1	27/1	25/1	29/1	3/2	11/2	5/2	10/2	11/2	12/2	17/2	15/2	25/2	25/2
1	2068788	R M Manoj Kumar	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	2068791	Tirupati	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	2068797	Devika G	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
4	2068800	Komal Yalameli	P	P	P	P	P	P	P	P	P	P	A	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	2068805	Akhil Kumar Reddy	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	2068834	Renuka	A	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	2068835	Sangeeta	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	2068837	Priyanka A R	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	2068843	Umadevi	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	2068844	Vandana	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	2068855	D M Sathyalakshmi	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	2068862	Aishwarya	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P


Signature of Faculty




Signature of HOD

Head of the Department Zoology


Signature of Principal

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

(9)

(19)

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Department of Zoology

Report of Add-on course

Add-on course: **APICULTURE**

Duration: 30 Hours

Started on: 10-12-2020.

Completed on: 27.02.2021

Name of the faculty: Dr. Shivaraj Y

Total No of students admitted: 24

Total No of classes taken: 30


Total No of students benefited: 24

REPORT:

The aim of the course is to create awareness among the students about the various programmes under taken by the Indian Government in promoting the industry at large extent such as Khadi and Village Industries Board in Bee-Keeping industry from years together in the country. Bees are known to the mankind since times immemorial.

Department of Zoology has offered this course for B.Sc. I, II, III students. This course enables the student maintenance of bee keeping. This course was conducted during the 10th Dec 2020 to 27th Feb 2021. During this period the lectures and practicals were conducted by resource faculties. 24 students have taken advantage of this course.

After completing this course the students were able to think about entrepreneurship in the apiculture.


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Taranath Shikshana Samsthe

LAXMI VENKATESH DESAI COLLEGE RAICHUR

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

Certificate

This is to Certify that Miss. / Mr. VENKATESH.P.
of Bsc IV sem S2068037 has completed the Certificate Course in
API CULTURE

Conducted by the Department of ZOOLOGY from
10.12.2020 to 27.02.2021

[Signature]

Head of the Department

Head of the Department Zoology



[Signature]
PRINCIPAL
L.V.D. College, RAICHUR

Principal

TARANTH SHIKSHANA SMASTE'S
LAXMI VENKATESH DESAI COLLEGE RAICHUR - 584103
(Affiliated to Gulbarga University, Gulbarga)
{Reaccredited with 'B' Grade by NAAC}



DEPARTMENT OF ZOOLOGY
APICULTURE
COURSE OVERVIEW

30 hrs

Importance of beekeeping History of bee, beekeeping Role of bees in Agricultural sector
Beekeeping - As a hobby - Additional income source (Side line beekeeping) As a profession
(Commercial beekeeper) Qualities of a beekeeper How to be a quality beekeeper Types of bees
found in India Importance of pollination.

AIMS AND OBJECTIVES:

1. To learn about life history and social structure of honey bee species.
2. To study bee rearing and farming methods and the equipment involved.
3. To learn about apiculture benefits and different byproducts & their economic scope.
4. To study the different bee diseases and predators and their control measures

SYLLABUS:

Unit -I: BIOLOGY OF BEES

05 hrs

1. History, Classification and Biology of Honeybees.
2. Social Organization of Honey bees.

Unit -II: REARING OF HONEY BEES

10 hrs

3. Artificial Bee Rearing (Apiary), Bee hives- Newton and Langstroth, Bee Pasturage, Selection of Bee Species for apiculture, Bee keeping equipment, Methods of extraction of honey (Indigenous and Modern) and procedures used in keeping of artificial bee hives.

Unit- III: DISEASES AND ENEMIES 03 hrs

6

4. Bee diseases and enemies, Control and preventive measures.

Unit- IV: ECONOMY OF BEES AND ENTREPRENEURSHIP

05 hrs

5. Products of Apiculture industry and its uses (Honey, Bee wax, Propolis, Pollen etc.).
6. Bee keeping industry- Recent efforts, Modern methods in employing artificial believes for Cross pollination in horticulture gardens.

6: Practicals

10hrs

P-1. Study of different types of Honey Bees and its classification.

P-2. Bee keeping equipments.

P-3. Study on Bee diseases and enemies.

P-4. Study on products of Apiculture industry.

P-5. Visit to Bee keeping places and submit report.

NOTE: Submission of a project report is compulsory.

LEARNING OUTCOMES:

1. Ability to understand and describe the life stages and social organization of honey bee species.
2. Ability to correctly explain and perform bee rearing, farming and harvesting practices.
3. Appreciate the economic importance of derivative benefits and byproducts of apiculture.
4. To identify and take remedial measures against the different bee diseases and predators.

REFERENCE BOOKS:

1. Apiculture - Prost, P. J. (1962), Oxford and IBH, New Delhi.
2. Apiculture - Bisht D. S., ICAR Publications.
3. Bee Keeping in India - Indian Council of Agricultural Research, New Delhi


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

Course Structure and Examination Scheme:

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

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

marks

Practical

Marks: 10

2X5=10

Time: 1 hours

Q.1. Answer the following (any two)

1. Explain in details Life cycle of Honey bees.
2. Explain in detail Social organization in bees.
3. Explain in details artificial bee rearing

10
10

(12)

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

Time: 3 hours

Q.1. Answer the following (any three)

- 1 Explain in details biology and social organization in bees
2. Explain in details rearing of honey bees
3. Explain in details about
 - a. diseases
 - b. enemies and control and preventive measures.
4. Explain in details composition and economic importance of honey.
5. Explain in detail entrepreneurship in Apiculture.

Marks: 60

3X20=60

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SUBJECT: ZOOLOGY
PRACTICAL EXAM
COURSE TITLE: APICULTURE

Time: 1 hours

Q. Answer the following

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

Marks: 30

2X10=20

1X10=10


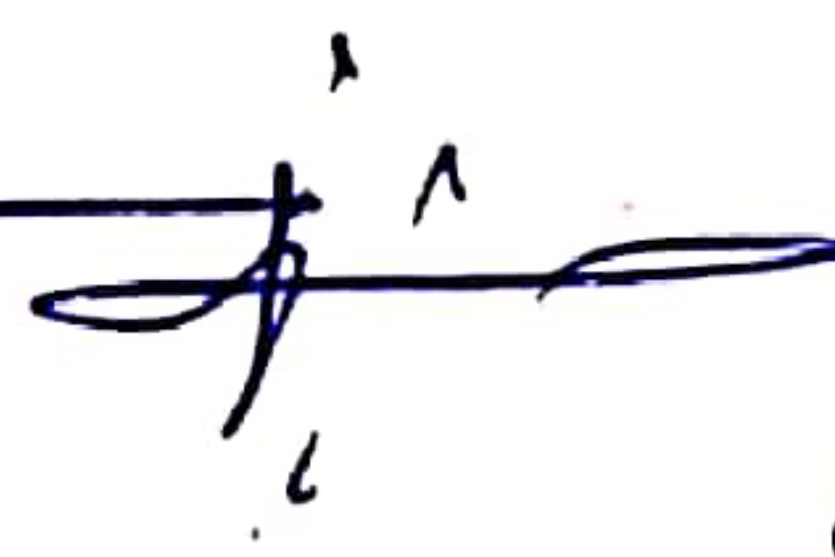

TARANATH SHIKSHANA SAMSTHE
LAXMI VENKATESH DESAI COLLEGE, RAICHUR


SUBJECT: ZOOLOGY

MARKS LIST

COURSE TITLE: APICULTURE

Sl. No	Reg. No	Name of the Student	Internal Marks	External Marks		
				Theory	Practical	Total
1	S2068653	Nisha	09	53	29	91
2	S2068723	Siri	10	58	28	96
3	S2068730	Sunita	08	54	26	88
4	S2068735	K Deepa	10	56	24	90
5	S2068742	Pavan Kumar	09	58	23	90
6	S2068866	Bhavana	10	58	26	94
7	S2068940	Mounika	10	54	27	91
8	S2068030	B Shruthi	10	52	30	92
9	S2068037	Venkatesh P	07	59	26	92
10	S2068006	Mahalaxmi	10	51	30	91
11	S2068900	Sanjana	09	54	29	92
12	S2068870	Hrithika	10	56	27	93
13	2068788	R M Manoj Kumar	09	57	29	95
14	2068791	Tirupati	08	54	24	86
15	2068797	Devika G	09	59	26	94
16	2068800	Komal Yalameli	10	51	23	84
17	2068805	Akhil Kumar Reddy	07	53	22	82
18	2068834	Renuka	08	54	26	88
19	2068835	Sangeeta	09	59	29	97
20	2068837	Priyanka A R	08	56	24	88
21	2068843	Umadevi	09	53	26	91
22	2068844	Vandana	10	56	27	93
23	2068855	D M Sathyalakshmi	09	46	28	83
24	2068862	Aishwarya	10	54	24	88


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