

# Taranath Shikshana Samsthe Laxmi Venkaiesh Desai college, Raichur



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

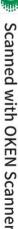
#### Index for Add-On Course

Title: VERMICULTURE AND YERMICOMPOSTING

Academic Year: 2023

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#### TARANATH SHIKSHANA SAMSTHE LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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



## Department of Zoology

#### OBJECTIVE OF THE COURSE

>Students will be able to compost in a limited space and describe the decomposing process.

Will get the knowledge of biodiversity of

local earthworms.

#### >LEARNING OUTCOMES

>Understanding the role of worm farming in Modern Farming.

environment and managing the waste.

Introducing

Add-on course

On

#### "VERMICULTURE AND VERMICOMPOSTING"

For 30 Hours

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

Course Start Date: 19-01-2023

A warm welcome to all the students & staff

Aristotle once said, "Worm are the Intestines of the Earth". Vermiculture is a technique based on utilizing some species of earthworms to convert organic waste into Vermicompost which is again, the product of decomposition by various worms. It is a practice of harvesting worms that take part in decomposing organic waste and turning it into nutrient-rich

fertilizer.

Dr. Venkatesh B Devaru



Dr. Malkanna Assoc Prof & HOD Department of Zoology



>Role of Vermiculture in protecting the

Date: 03.01.2023

To

The Principal,

LVD College, Raichur.

From

Head of Department,

Department of Zoology

Respected Sir,

Sub: Permission to start an Add - On course.

With respect to the above sited subject I, the undersigned request you to grant permission to start an Add-on course titled "VERMICULTURE AND VERMICOMPOSTING" 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.

Head of the Department Zoology





# LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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

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

Office of the Principal Ph: (08532)-240286, 240707 Fax: +918532 240707

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

Date: 09-01-2023 BOARD OF STUDIES MEETING INVITATION

Respected Sir/ Madam,

Department of Zoology

Board of meeting which has been scheduled on 9th January 2023 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,

Department of Zoology

Head of the Department Zoology







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#### BOARD OF STUDIES MEETING-MINUTES

Date: 09-01-2023

Department of Zoology

Board of meeting which has been scheduled on 9<sup>th</sup> January 2023 in the Department of Zoology at 10.30 AM. At the outset, Chairman welcomed all the members and the discussions 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 "VERMICULTURE AND VERMICOMPOSTING".
- 4. The parameters considered for revision:
  - a. The importance of research activities and entrepreneurial skill development to enhance employability
  - b. A detail of the course revisions was done.

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

Head of the Department Zoologi





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Date: 09-01-2023

#### ORDER

Sub: Meeting of Board of Studies members

A meeting of the following BOS constituted is hereby convened on 09-01-2023 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 "VERMICULTURE AND VERMICOMPOSTING"

| Sl. No | Name of the Faculty   | Designation     | Sign  |
|--------|---|-----------------|---|
| 1      | Dr. Somanathreddy C Patil PG Co-ordinator Department of Studies and Research In Zoology Govt. College (Autonomous) Kalaburagi- 585103 | Chairman        | PG Co-ordinator  Dept. et Studies and Research  In Zoology Gost. College (Autonomous)  Keitburg - 565103. |
| 2      | Mr. Basavaraj. K Assistant Professor Department of Zoology G. F.G College, Sindhanur  | External Member | 202   |
| 3      | Dr. Manjunath. K Assistant Professor Department of Zoology L.V.D College, Raichur   | Internal Member | Muffer  |

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

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





## TARANATH SHIKSHANA SAMSTHE LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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E-mail: <a href="mailto:lvdrcr@gmail.com">lvdrcr@gmail.com</a> Website: www.lvdcollege.com

Date: 05-01-2023

To,

Dr. Somanathreddy C Patil

PG Co-ordinator

Dept. of Studies and Research in Zoology

Govt. College (Autonomous),

Kalaburagi- 585103

Sub: Invitation for Board of Studies meeting as Chairman on 9th January 2023 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 "VERMICULTURE AND VERMICOMPOSTING" which will be conducted on 9th January 2023 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2023-24. In this regard, we request for your valuable suggestion in revising the Curriculum & Syllabus based on latest technology in vermicomposting for micro-entrepreneurship development as it has emerged as an efficient, eco friendly waste management system which enhances knowledge in 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

Head of the Department Zoology







### TARANATH SHIKSHANA SAMSTHE LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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

Date: 05-01-2023

To,

Mr. Basavaraj

Assistant Professor

Department of Zoology

G. F.G College, Sindhanur

Sub: Invitation for Board of Studies meeting as External Member on 9th January 2023 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 "VERMICULTURE AND VERMICOMPOSTING" which will be conducted on 9th January 2023 in the Dept. Of Zoology, L.V.D College, Raichur, for the academic year 2023-24. 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

Head of the Department Zoology

To

Date: 07-01-2023

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. Basavaraj Assistant Professor Department of Zoology G. F.G College, Sindhanur received invitation letter to be a Member of BOS, for the Add-on Course to be conducted by your college.

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

Thanking You,

Yours Sincerely



To

The Principal,

LVD College,

Raichur.

Respected Sir,

Sub: Acceptance to be the chairman of BOS.

With reference to the above-cited subject, Dr. Somanathreddy C Patil PG Co-ordinator Dept. of Studies and Research in Zoology Govt. College (Autonomous), Kalaburagi, 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

Date: 09-01-2023







#### LAXMI VENKATESH DESAI COLLEGE, RAICHUR

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

#### DEPARTMENT OF ZOOLOGY

#### **NOTICE**

Based on the feedback analysis and Suggestion of students, college has introduced an Add-on course "VERMICULTURE AND VERMICOMPOSTING" 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 12-01-2023.

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







#### LAXMI VENKATESII DESAI COLLEGE, RAICHUR

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Website: www.lvdcollege.com

Date: \$3.01.2022

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that, the college has introduced the Add-on course on "VERMICULTURE AND VERMICOMPOSTING" with the duration of 30 hours introduced in 2023. The said programme is apart from the existing course curriculum.

Head of the Department



#### TARANTH SHIKSHANA SMASTE'S LAXMI VENKATESH DESAI COLLEGE RAICHUR - 584103

(Affiliated to Gulbarga University, Gulbarga) {Reaccredited with 'B' Grade by NAAC}



#### DEPARTMENT OF ZOOLOGY VERMICULTURE AND VERMICOMPOSTING **COURSE OVERVIEW**

Aristotle once said. "Worms are the Intestines of the Earth". Vermiculture is a technique based on utilizing some species of earthworms to convert organic waste into Vermicompost which is again, the product of decomposition by various worms. It is a practice of harvesting worms that take part in decomposing organic waste and turning it into nutrient-rich fertilizer.

Vermiculture and vermicomposting are the best and environment friendly methods for producing nutrient rich manure for home gardening and agriculture. The course on vermicomposting aims at imparting sufficient understanding and skill to the student for an economically viable activity. Vermiculture is environment friendly since earthworms feed on anything that is biodegradable, vermicomposting can aid in garbage disposal problems. No imported inputs are required, worms are available locally and organic matter for feeding are abundant locally as market wastes, grasses, used papers and farm waste.

#### AIMS AND OBJECTIVES:

- 1. Students will be able to compost in a limited space and describe the decomposing process.
- 2. The interested students will get the knowledge of composting,
- 3. Students will get the employment,
- 4. They will also turn towards organic farming,
- 5. Will help to maintain the environment pollution free and
- 6. Will get the knowledge of biodiversity of local earthworms.

#### ELIGIBILITY:

Eligibility of the course

: 10+2

Fees structure

: Unpaid course

Intake capacity

: Total numbers of seats 20

Duration of the course

: duration of the course will be four month.



#### PRACTICALS:

10 hrs

- 1. Study of vermiculture, vermiwash and vermicompost equipments, devices
- 2. Bed preparation
- 3. Maintenance of vermicompost and climatic conditions. Harvesting, drying, packaging, transport and storage of vermicmpost.
- 4. Vermiwash collection and processing technique

#### LEARNING OUTCOMES:

- 1. Understanding the role of worm farming in Modern Farming.
- 2. Understanding the potential of vermicompost as an alternative to chemical fertilizers.
- 3. Role of vermicultre in maintaining the health of soil and humans.
- role of farming worm in Modern 4. Understanding the Farming.
- 5. Economic importance of vermiculture.
- 6. Role of Vermiculture in protecting the environment and managing the waste.



#### REFERENCE BOOKS:



1. R.K. Bhatnagar& R.K. Palta- Earthworm Vermiculture and Vermicomposting, Kalyani Publishers, No. 1, Mahalakshmi Street, T. Nagar, Chennai 2. P.K. Gupta - Vermi Composting for Sustainable Agriculture. AGROBIOS (India), Agro House, Behind Nasrani Cinema, Chopasani Road, Jodhpur - 342 002. 3. Sathe, T. V.-Vermiculture and Organic Farming. Daya Publishing House 4. Bhatt J.V. & S.R. Khambata (1959)- Role of Earthworms in Agriculture. Indian Council of Agricultural Research, New Delhi.



# TARANATH SHIKSHANA SMASTHE LAXMI VENKATESH DESAI COLLEGE RAICHUR – 584103 ADD ON COURSE TIME TABLE FOR B. Sc I, III, V SEMESTER

DEPARTMENT OF ZOOLOGY

Semester time table for the year 2023-23

| Days↓<br>Time → | 9.30-10.20 AM | 10.20-13.10 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<br>PM | 4.10-5.10<br>PM  |
|-----------------|---------------|----------------|----------------|----------------|---------------|--------------|--------------|-----------------|------------------|
| Monday          |               |                |                |                |               |              |              |                 |                  |
| Tuesday         |               |                |                |                |               |              |              |                 | <del> </del>     |
| Wednesday       |               |                |                |                |               |              |              |                 |                  |
| Thursday        |               |                |                |                |               |              |              |                 | ADD ON<br>COURSE |
| Friday          |               |                |                |                |               |              |              |                 | ADD ON<br>COURSI |
| Saturday        |               |                |                |                |               |              |              |                 | ADD ON<br>COURSI |
|                 |               |                |                |                |               |              |              | <b>N</b>        |                  |

HEAD OF THE DEPARTMENT

Head of the Department Zoology

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 Attendence Sheet 2023-24

|        |                |                        |        |         |         |         |          |       |        | Dej    | part  | men     | t of  | Zool    | ogy    |         |             |          |          |        |        |        |        |              |          |          |         |               |            |        |        |         | $\perp$ |
|--------|----------------|------------------------|--------|---------|---------|---------|----------|-------|--------|--------|-------|---------|-------|---------|--------|---------|-------------|----------|----------|--------|--------|--------|--------|--------------|----------|----------|---------|---------------|------------|--------|--------|---------|---------|
| Class: |                | -                      |        | (       | our     | se tit  | le:      | VEF   | RMI    | CUI    | TU    | RE A    | AND   | VE      | RM     | ICO     | MP          | OST      | ING      | .   1  | Facu   | ity i  | Nam    | e: Di        | r. M     | AN.      | JUN     | ATI           | 1. K       |        |        |         |         |
| Sl.No  | Register<br>No | Name of the<br>Student | _      | 7       | 3       | 4       | w        | Ų     | 7      | 8      | 6     | 10      | =     | 12      | 13     | 7       | 15          | 91       | 17       | 82     | 19     | 20     | 21     | 22           | 23       | 24       | 25      | 26            | 27         | 28     | 29     | 2       | 5 2     |
|        |                |                        | 19/1/2 | 20/1/23 | 21/1/15 | 27/1/23 | 28/1/25  | 2/423 | 3/1/27 | 4/2/23 | 8/2/2 | 16/2/23 | (1/23 | (6/2/2) | 2/5/27 | (4/5/2) | 45/2/22     | 1/2/2V   | 25/2/23  | 3/4/23 | \$3/23 | 9/2/23 | 9/3/23 | 6/2/23       | 1/3/2    | 17/8     | R. 3/5% | 5/2/2         | 1          | 8-13/2 | 0/8/23 | 6/9/2   | 18/2/2  |
| 1      | \$2184284      | MANOJ KUMAR I S        | P      | P       | P       | P       | P        | R     | P      | Þ      | P     | 7       | P     | ď.      | P      | P.      | P           | R        | P        | P      | P      | P      | P      | P            | n        | n        | P       | P             | P          | 12     | 8      | 8       | P       |
| 2      | 52184321       | RENUKA PATIL           | P      | P       | P       | P       | P        | P     | P      | P      | A     | n-      | P     | P       | P      | حر      | P           | P        | P        | P      | P      | Ð      | P      | P            | P        | P        | P       | P             | 9          | P      | A      | P       | P       |
| 3      | S2184343       | TEJASHWINI             | P      | P       | 7       | P       | ħ        | P     | R      | P      | P     | P       | R     | P       | P      | p       | 9           | P        | P        | P      | P      | P      | P      | A            | P        | P        | P       | P             | P          | P      | P      | 9       | PS      |
| 4      | \$2184273      | P VISHNU PRASAD        | P      | P       | P       | P       | P        | P     | P      | P      | A     | Р       | P     | P       | P      | 4       | R           | P        | P        | p      | P      | Р      | p      | P            | P        | P        | 7       | P             | P          | p      | P      | P       | PK      |
| 5      | S2184211       | VYASARAJ JOSHI         | P      | P       | n       | P       | A        | P     | P      | R      | P     | P       | P     | P       | P      | ħ       | P           | P        | 9        | P      | P      | P      | P      | 4            | 1        | 7)-      | حو      | P             | P          | P      | P      | P       | Pλ      |
| 6      | S2184280       | NANDINI                | P      | 9       | P       | 1       | 8        | P     | P      | 7      | P     | P       | P     | P       | P      | P       | P           | <i>P</i> | P        | 2      | F      | P      | 7      | p            | 7        | A        | P       | P             | 8          | 47     | 7      | P)-     | DAM.    |
| 7      | S2184167       | SUMEET A JEEVANGI      | 7      | 7       | 8       | P       | P        | P     | ₽      | P      | P     | P       | Ð     | #3      | P      | P       | P           | ٢        | P        | P      | P      | P      | P      | P            | P        | P        | P       | P             |            | P      | P      | P       | PS      |
| 8      | 52184191       | TRIVENI                | 7      | P       | P       | P       | <b>ት</b> | P     | P      | P      | P     | P       | P     | A       | P      | ۶       | P           | P        | P        | Ð      | P      | P      | P      | P            | 17       | T)       | P       | <del>})</del> | <b>D</b> - | P      | P      | 42      |         |
| 9      | 52184192       | AMBIKA                 | P      | 4       | P       | P       | A        | 17)-  | P      | P      | P     | P       | A     | P       | P      | P       | B           | P        | 9        | Ð      | P      | P      | 12     | 9            | P        | :.<br>Ct | p       | P             | P          | 7-     | -      | 92      | 20      |
| 10     | 52184197       | GIRISH                 | *      | 7       | 8       | 7       | P        | 0     | P      | P      | P     | P       | 78-   | P       | ተ      | P       | P           | 7        | <u>.</u> | P      | P      | P      | 9      | <del>/</del> | P        | P        | n       | P             | P          | 1      | -      | 9P<br>P | 5/      |
| 11     | 52184252       | MEGHANA                | P      | P       | 8       | P       | A        | -17-  | P      | P      | P     | P       | 3     | P       | P      | P       | P           | P        |          | 3>     | P      | P P    | -      | P            | <i>h</i> | 1        | P       | 1             | P          | 42     | P      |         | 00      |
| 12     | 52184253       | SHRUTHI                | P      | P       | P       | 7       | P        | 1     | 7      | 8      | n     | 9       | P     |         | P      | P       | <i>t</i> /> | ·        | P        | -      | P      | ,<br>+ |        | 7            | 7        | 7        | P       | p             | 7          | 7)     | 7      | 0       | Pa      |

Signature of Faculty

Signature of HOD

Head of the Department Zoology

Signature of Principal PRINCIPAL

L. 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 2023-24

|        |                |                        |         |        |            |         |         |        |        | Dep   | artn   | nent   | of Z     | cool    | ogy     |         |         |         |       |        |         |       |       |       |         |         |        |        |       |       |      |       |       |
|--------|----------------|------------------------|---------|--------|------------|---------|---------|--------|--------|-------|--------|--------|----------|---------|---------|---------|---------|---------|-------|--------|---------|-------|-------|-------|---------|---------|--------|--------|-------|-------|------|-------|-------|
| Class: |                |                        |         | C      | ours       | se tit  | le: \   | VER    | MI     | CUL   | TUI    | RE A   | ND       | VE      | RMI     | CO      | мрс     | ST      | ING   | F      | acul    | ty N  | ame   | : Dr  | . M     | ANJ     | UN     | ATH    | . K   |       |      |       |       |
| Sl.No  | Register<br>No | Name of the<br>Student | 1       | 7      | в          | 4       | S       | 9      | 7      | 8     | 6      | 10     | 11       | 12      | 13      | 14      | 15      | 16      | 11    | 18     | 19      | 20    | 21    | 22    | 23      | 24      | 25     | , 26   | 27    | > 28  | 29   | 30    | 3.1   |
|        |                |                        | 14/1/23 | 2/1/23 | 21/1/2     | 27/1/23 | 26/1/22 | 2/4/25 | 3/4/23 | 4/2/2 | 9/2/2> | 4/4/23 | 11 /2 A3 | 25/2/21 | 17/2/23 | 80/2/80 | 28/2/23 | 25/2/22 | 35/43 | 3/5/53 | \$/\$/2 | 19/25 | 6/3/3 | 2/5/9 | 10/3/23 | 14/3/12 | 613/23 | 18/3/2 | 3/8/2 | 2/4/2 | 111h | 1/2/2 | 6/3/5 |
| 1      | S2184317       | YAMUNA D               | P       | P      | P          | P       | P       | P      | P      | P     | P      | P      | D        | P       | P       | P       | P.      | P       | P     | P      | P       | P     | P     | P     | P       | ₽       | P      | Þ      | P     | P     | A    | A     | P     |
| 2      | S2184320       | SANGAMESH              | A       | P      | P          | P       | P       | P      | P      | P     | D      | A      | p        | P       | P       | P       | p       | P       | P     | P      | P       | P     | Р     | P     | Þ       | P       | A      | -Ð     | P     | P     | P    | D     | P     |
| 3      | S2184327       | SHILPA                 | Þ       | P      | P          | P       | P       | P      | P      | P     | P      | P      | P        | P       | P       | P       | P       | P       | ₽     | P      | P       | P     | P     | ₽     | A       | P       | P      | P      | P     | A     | P    | P     | P     |
| 4      | S2184328       | G KAVYASHREE           | P       | 0      | P          | P       | A       | P      | A      | P     | P      | P      | P        | P       | A       | p       | þ       | ρ       | Р     | P      | P       | P     | P     | A     | P       | Þ       | P      | A      | P     | P     | P    | P     | DE    |
| 5      | S2184329       | G SUPRIYA              | P       | P      | P          | P       | P       | P      | P      | P     | P      | P      | P        | P       | A       | P       | P       | P       | P     | P      | P       | P     | P     | P     | P       | P       | P      | P      | P     | 8     | P    | P     | p     |
| 6      | S2184330       | SHIVARAJA              | P       | P      | P          | p       | A       | P      | P      | P     | P      | P      | p        | P       | р       | A       | P       | P       | P     | P      | P       | ρ     | P     | P     | Þ       | P       | P      | P      | P     | P     | D    | D     | A     |
| 7      | S2184331       | MUKKANNA               | P       | þ      | D          | P       | Þ       | A      | 8      | P     | P      | P      | P        | P       | p       | P       | P       | P       | P     | P      | P       | P     | ρ     | P     | P       | P       | P      | P      | P     | P     | Þ    | Þ     | B     |
| 8      | S2184335       | JETHENDRA              | A       | P      | P          | P       | P       | D      | P      | P     | p      | P      | P        | 9       | P       | P       | P       | P       | P     | P      | P       | P     | P     | P     | P       | P       | P      | p      | P     | P     | P    | P     | P     |
| 9      | S2184337       | VISHWANATH<br>REDDY    | P       | P      | P          | P       | A       | P      | P      | P     | P      | P      | P        | P       | P       | A       | P       | P       | P     | P      | P       | P     | A     | ₽     | P       | P       | P      | P      | P     | P     | P    | P     | R     |
| 10     | S2184338       | Y G MEGHA              | P       | P      | P          | P       | P       | P      | P      | P     | P      | P      | P        | P       | P       | P       | P       | P       | P     | P      | P       | P     | P     | P     | P       | P       | P      | P      | P     | P     | p    | D     | D     |
| 11     | S2184339       | PRAVEENAKUMA<br>R      | P       | P      | <b>₽</b> ) | P       | P       | P      | R      | P     | p      | P      | P        | P       | P       | P       | P       | P       | P     | P      | P       | P     | P     | P     | P       | P       | P      | P      | P     | P     | P    | P     | P     |
| 12     | S2184341       | K KRISHNA<br>VAMSHI    | P       | P      | t          | 7       | P       | P      | P      | P     | P      | P      | P        | P       | P       | P       | P       | P       | P     | P      | P       | P     | P     | P     | P       | P       | P      | P      | P     | P     | P    | P     | ٦     |

Signature of Faculty

Signature of HOD

Head of the Department Zoology

Signature of Principal

PRINCIPAL

.V.D. College, RAICHUR-03.





#### LAXMI VENKATESH DESAI COLLEGE, RAICHUR

## Affiliated to Gulbarga University, Kalaburagi & Re-Accredited by NAAC with B Grade

Department of Zoology

Report of Add-on course

Add-on course: VERMICULTURE AND VERMICOMPOSTING

Duration: 30 Hours

Started on: 19-01-2023.

Completed on: 08.04.2023

Name of the faculty: Dr. Manjunath. K

Total No of students admitted: 24

Total No of classes taken: 30

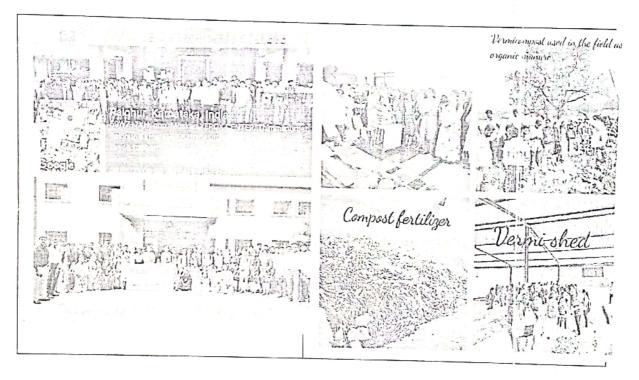
Total No of students benefited: 24

#### REPORT:

D

From the course students will be able to understand about worms and its compost as an ecofriendly natural fertilizer which can be prepared from biodegradable organic wastes. Department of Zoology has offered this course for B.Sc. I, II, III students. This courses biotic factors in maintaining life within an environment. This course was conducted during the 19th Jan 2023 to 8<sup>th</sup> Aug 2023. 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 enable to understand the importance of Vermiculture and Vermicomposting.



Head of the Department Zooiogi

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









Taranath Shikshana Samsthe

# LAXMI VENKATESH DESA! COLLEGE RAICHUR

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



| This is to Certify that Miss. / Mr. MANOJ KUMAR T.S.           |    |
|--|----|
| of Bsc. II Sem S.2.184284 has completed the Certificate Course |    |
| VERMI CULTURE AND VERMI COMPOSTING                             |    |
| Conducted by the Department of 20010 GY                        | om |
| 19.10,203 to 08.04.203   |    |
| COL  | _  |

Head of the Department Zoology

Principal

# Course Structure and Examination Scheme:

| Course<br>No: | Course Name                            | Hours<br>(Classes) |    | Internal<br>Marks | Extern    | al marks     | Total<br>marks |
|---------------|--|--------------------|----|-------------------|-----------|--------------|----------------|
| 1             | VERMICULTURE<br>AND<br>/ERMICOMPOSTING | 35                 | 10 | 10                | Theory 60 | Practical 20 | 100            |

#### TAR MATH SHIKSHANA SAMSTHE LAXMI VENKATESII DESAI COLLEGE, RAICHUR SUBJECT: ZOOLOGY INTERNAL ASSESSMENT

COURSE TITLE: VERMICULTURE AND VERMICOMPOSTING

Time: 1 hours

Marks: 20

 $2 \times 05 = 10$ 

- Q.1. Answer the following (any two)
- 1. Explain in details Systematic position. Morphology and Life cycle of Eisenia fet.da
- 2. Explain in detail applications of Vermiculture.
- 3. Explain in details pest and discuses of earthworms



# TARANATH SHIKSHANA SAMSTHE LAXMI VENKATESH DESAI COLLEGE, RAICHUR SUBJECT: ZOOLOGY THEORY EXAM

COURSE TITLE: VERMICULTURE AND VERMICOMPOSTING

Time: 3 hours

Marks: 60

Q.1. Answer the following (any three)

3X20=60

- 1 Explain in details Systematic position, Morphology and Life cycle of Eisenia fetida
- 2. Explain in details types and methods in Vermicomposting.
- 3. Explain in details about
- a. Pests and
- b. diseases of earthworms
- 4. Explain in details harvesting process in Vermicomposting.
- 5. Explain in detail entrepreneurship in Venniculture.

# TARANATH SHIKSHANA SAMSTHE LANMI VENK ATESH BESAI COLLEGE, RAICHUR SUBJECT: ZOOLOGY PRACTICAL EXAM COURSE TITLE: VERMICULTURE AND VERMICOMPOSTING

Time: 1 hours

Marks: 30

Q. Answer the following

2X10=20

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

1X10=10

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

MARKS LIST

# COURSE TITLE: VERMIN ULTURE AND VERMICOMPOSTING

| Sl. | Reg. No  | Name of the Student | Internal<br>Marks | External N |           | 4  |
|-----|----------|---------------------|-------------------|------------|-----------|--|
| No  |          |                     |                   | Theory     | Practic I | Total 99   |
|     |          |                     | 10                | 59         | 30_       | 94   |
| 1   | S2184284 | MANOJ KOMAR T S     | 09                | 56         | 29-       | 96   |
| 2   | S2184321 | RENUKA PATIL        | 10                | _58_       | 28        | 8-7  |
| 3   | S2184343 | TEJASHWINI          | 07                | 56<br>58   | 24_       | 91   |
| 4   | S2184273 | P VISHNU PRASAD     | 10                |            | 23        | 98   |
| 5   | S2184211 | VYASARAJ JOSIII     | 10                | 59         | 29_       | 87   |
| 6   | S2184280 | NANDINI             | 09                | 54         | 24        |  |
| 7   | S2184167 | SOMEET A JEEVANGI   | 08                | 56         | 24        | 88   |
| 8   | S2184191 | TRIVENI             | 07                | 53         | 23        | 83   |
| 9   | 52184192 | AMBIKA              |                   | 51         | 26        | 87   |
|     | S2184197 | GIRISH              | 10                |            |           | 87   |
| 10  |          | MEGHANA             | 08                | 56         | 23        |  |
| 11  | S2184252 |                     | 09                | 54         | 24        | 87   |
| 12  | S2184253 | SHRE THE            | 10                | 53         | 29        | 92   |
| 13  | S2184317 | TAMENAD             | 08                | 52         | 28        | 89   |
| 14  | S2184320 | SANGAMI SII         | 09                | 50         | 26        | 94   |
| 15  | S2184327 | SHILPA              | 10                | 56         | 27        | 93   |
| 16  |          | GKAVYASHREE         | 10                | 5          | 23        | 84   |
| 17  |          | G SUPRIY V          | 09                | 44         | 24        | 77<br>83   |
| 18  |          | SHIVARAJA           | 10                | 48         | 25        | And the same of th |
| 19  |          | MUKKANYA            | 09                | 54         | 2-8       | 91   |
| 20  |          | JETHENORA CHURCHDY  | - 1               | 56         | 24        | 90   |
| 21  |          | VISIONAN VITI REDDY | 08                | 54         | 23        | 85   |
| 22  |          | Y C MEGNA -         | 08                | 53         | 22        | 83   |
| 23  |          | PRAVEENAKUMAR       | 07                | 52         | 24        | 83   |
| 24  |          | K KRISHNA VANISHI   |                   |            |           |  |

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Head of the Department Rootes

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