

Date: 09-12-2021

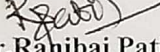
To,  
The Principal  
Karnatak Arts, Science & Commerce College,  
Bidar.

Subject: Request to grant permission to start add-on course for UG students on "Vermicompost technology" for year: 2021-2022:Reg.

Sir,  
As per the guidelines issued by IQAC, we would like to start the add-on course for UG students on "Vermicompost technology" from the academic year: 2021-2022, with intake of 26 students.  
Please permit us to start the add-on course and do needful.

Thanking you,

Sincerely,

  
Dr. Ranibai Patil  
Department of Zoology

**HEAD**  
Department of Zoology  
Karnatak Arts Sci & Commerce Colle  
2021-2022



Karnatak Arts, Science & Commerce College, Bidar

(ESTD. 1970)  
(Affiliated to Gulbarga University)  
College With Potential for Excellence

Department of ZOOLOGY (AIEEP)



Date: 18/12/2021

### BOARD OF STUDIES MEETING

Board of Studies meeting of the Department of Zoology was conducted on 18-12-2021 at 12.15pm in the UG Course, Department of Zoology Karnataka College, Bidar.

#### AGENDA:

Innovations in the course:

Certificate courses can be started, appreciations courses to enhance student participation.

1. Interested students should be select.
2. Discussion about Title of certificate course.
3. Syllabus setting about theory and practical of add on course.
4. Credits/Evaluation.

External Member Board of Studies Zoology:

Dr. Srilaxmi.K, Asst. Professor. Dept.Of Zoology (UG),C.B. College, Bhalki.

Members Present:

1. Dr. Ranibai M

2. Mrs. Renuka Swamy

3. Miss. Chandrika Deshmukh



## RESOLUTIONS:

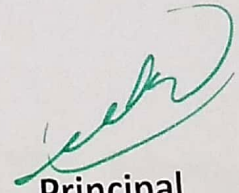
The common Board consisting of the above members have met in the UG Course, Department of Zoology, Karnataka College Bidar, and considered the enclosed agenda. After deliberations and discussions, the Board members have resolved the following:

1. For B.Sc. Zoology students have one of the add on course, those who have interested this course they should apply for admission in “**Vermicompost technology**” Certificate course.
2. The members formulated the syllabus for Certificate Course “**Vermicompost technology**” this is about 6- Months program.
3. The syllabus for practical of the above certificate course was formulated on par with syllabus model of “**Vermicompost technology**”
4. There should be 4 hours per week for theory paper and 2 hrs for each practical.
5. Marks and credits are allotted to theory and practical papers in each semester.

  
HOD

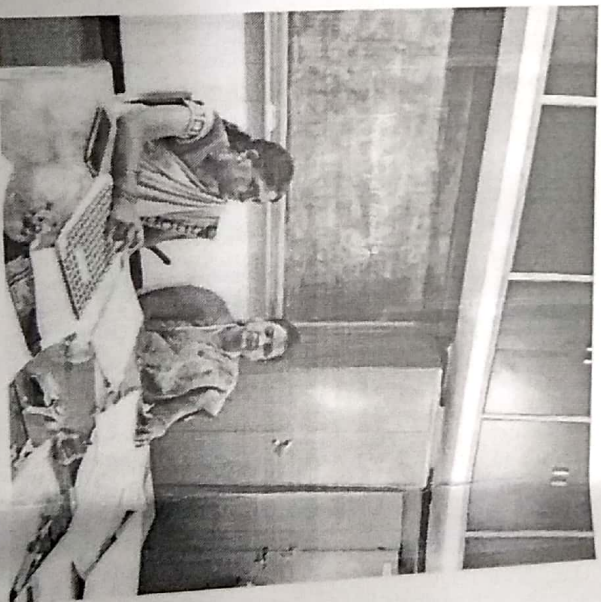
**HEAD**

Department of Zoology  
Karnatak Arts Sci. & Commerce College  
BIDAR-585401



Principal  
**PRINCIPAL**  
Karnataka Arts Sci. & Com. College  
BIDAR-585401





**BOS Meeting  
held at Department of Zoology on 18/12/2021**





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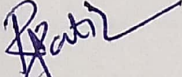
Department of Zoology (NEP)



Date: 04/01/2022

## NOTICE

All the students are hereby informed that, the Department of **Zoology** is starting the add-on course for UG students on “**Vermicompost technology**” from the **10/01/2022**; interested students can enroll their names on or before **15/01/2022** in the Department of Zoology.

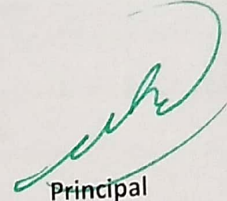
  
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**HEAD**

Department of Zoology

Karnatak Arts Sci. & Commerce College

BIDAR-585401



Principal

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## Department of Zoology(UG)NEP

Academic Year: 2021-22

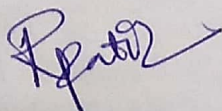
Certificate Course: "Vermicompost technology"

UG Student Enrolment List

Sl.No	Name of the Students	Sign
1	SHAKUNTALA	
2	NISARGA	
3	SAMARA SIHA REDDY	
4	TUSHIL D	
5	KAVYA	
6	MADIHA SAHER	
7	SRIKANDE KARAN	
8	NIKHAT FATIMA	
9	RAMSHA	
10	SHAMBHAVANI	
11	AFRAA	
12	B PUSHPA	
13	AYESHA FARHEEN	
14	MADIHA MAHVEEN	
15	AMTU RAHEEM	



16	NAGESH	<u>Nagesh</u>
17	LEENA	<u>V. Leena</u>
18	NEHA	<u>Neha Fatima</u>
19	TABBASUM	<u>Tabassum</u>
20	SAFA FATIMA	<u>Safa</u>
21	BILQEES ISHRA	<u>Bilqees</u>
22	LUBNA	<u>Lubna</u>
23	MAHESHWARI	<u>M</u>
24	VEERESH	<u>veeregh</u>
25	MAHADEV	<u>M</u>
26	RANJITA	<u>Ranjita</u>
27		
28		

  
**HOD**  
**Department of Zoology**  
**Karnatak College, Bidar**



KRE Society's  
**Karnatak Arts, Science and Commerce  
College, Bidar**



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## ADMISSION FORM

Certificate/Value added/Skill Development/Diploma/Advance Diploma Courses  
&  
IAS/IPS/NET/SET Coaching Classes

Name of the Department Zoology (2021-2022) Year 2021-2022

Name of the Student B. PUSPA

Father's/Guardian's Name MALLAPPA

Date of Birth

Date

Month

Year

04

10

2002



Address for Correspondence :

DHANALAYMI NIVAS, 6<sup>th</sup> cross Ram  
nagar chidri road, Bidar.

Semester/Class : Bsc 1<sup>st</sup>

Register No : U04AE2150159

Percentage of previous semester : 79.6%

Contact No : 9945481847

E-Mail ID : Pushpa0110bidar@gmail.com

Course to be Joined: Vermi compost

Signature of the Student

HOD/Coordinator

**HEAD**

Department of Zoology  
Karnatak Arts Sci. & Commerce College  
BIDAR-585401

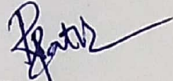
**PRINCIPAL**

Principal  
Karnatak Arts Sci. & Com. College  
BIDAR-585401



K.R.E. Society's  
KARNATAK ARTS, SCIENCE & COMMERCE COLLEGE, BIDAR  
Certificate course "Vermicompost technology" Time Table for the academic year: 2021- 2022  
Department: Zoology (UG)(NEP)  
(With effect from 10/01/2022)

Period/ Days	08am to 10am	10am to 12pm	01pm to 03pm
Sunday	Theory Dr. Ranibai patil/ Renuka Swamy	Theory Chandrika Deshmukh/ Renuka Swamy	Practical Renuka Swamy/ Dr. Ranibai patil/ Chandrika Deshmukh/

  
HOB

**HEAD**  
Department of Zoology  
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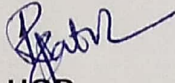


**Department of Zoology (NEP)**

Date: 23/03/2022

### NOTICE

All the students enrolled in add-on course on “Vermicompost technology” are hereby informed that, the course examination is scheduled on 30/03/22 from 10.00am to 11.00am(Theory exam) and 2:00pm to 4:00pm(Practical exam), without fail.

  
HOD

**HEAD**

**Department of Zoology**  
Karnatak Arts Sci. & Commerce Colle  
BIDAR-585401

  
Principal  
**PRINCIPAL**  
Karnataka Arts Sci. & Com. College  
BIDAR-585401





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**Department of Zoology(UG)NEP**

**Academic Year: 2021-22**

**CERTIFICATE COURSE THEORY QUESTION PAPER**

**Subject: "Vermicompost technology"**

**TIME: 10am-11am**

**DATE: 30/03/22**

**MAX.MARKS=25**

**Answer the following**

**5x5=25**

1. Explain small scale earthworm farming for home gardens.
2. Explain vermiculture meaning and its economic importance.
3. Explain Vermicompost technology.
4. Explain nutritional composition of Vermicompost for plants.
5. What is vermiwash collection write its composition and use.



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**Department of Zoology(UG)NEP**

Academic Year: 2021-22



**CERTIFICATE COURSE PRACTICAL QUESTION PAPER**

Subject: "Vermicompost technology"

TIME: 2pm-4pm

DATE: 30/03/22

MAX.MARKS=25

5x5=25

Answer the following

1. How do we set-up a vermicomposting container.
2. What should we feed the worms?
3. How do we maintain the worms in the winter.
4. Which type of earthworms are most suitable for vermicomposting.
5. Which Vermicompost has highest N-content.





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## Department of Zoology(UG)NEP

Academic Year: 2021-22

### Certificate Course: "Vermicompost technology" UG students theory and practical Attendance and Marks List

Sl.No	Name of the Students	Sign	Theory Marks	Practical Marks
1	SHAKUNTALA	<u>Shakuntala</u>	20	21
2	NISARGA	<u>Nisarga</u>	19	20
3	SAMARA SIHA REDDY	<u>Samara</u>	19	21
4	TUSHIL D	<u>Tushil</u>	24	20
5	KAVYA	<u>Kavya</u>	24	23
6	MADIHA SAHER	<u>Sul.M</u>	22	23
7	SRIKANDE KARAN	<u>J. Karande</u>	24	21
8	NIKHAT FATIMA	<u>Nikhata</u>	18	23
9	RAMSHA	<u>Ramsha</u>	24	24
10	SHAMBHAVANI	<u>Shambh</u> Absent →		
11	AFRAA	<u>Afraa</u>	23	21
12	B PUSHPA	<u>Pushpa</u>	22	22
13	AYESHA FARHEEN	<u>Ayesha</u>	24	24
14	MADIHA MAHVEEN	<u>Madiha</u>	22	22
15	AMTU RAHEEM	<u>Am</u>		
16	NAGESH	<u>Nagesh</u>	22	21
17	LEENA	<u>L. Leena</u>	21	22
18	NEHA	<u>Neha-Tatin</u>	20	23
19	TABBASUM	<u>Tabassum</u>	24	24

20	SAFA FATIMA		19	21
21	BILQEES ISHRA	<del>palal</del> <del>bilqees</del>	20	21
22	LUBNA	Lubna	20	23
23	MAHESHWARI			
24	VEERESH	Veeresh	19	21
25	MAHADEV	<del>Mahadev</del>	21	22
26	RANJITA	Ranjita	24	24

  
**PRINCIPAL**  
 Karnataka Arts Sci. & Com. College  
 Bidar-585101



## Subject: "Vermicompost Technology"

Answer the following:

1. Explain small scale earthworm farming for home gardens?

Ans. Vermicompost is the product of the composting process using various species of worms, usually red wigglers, white worms, and other earth worms to create a heterogeneous mixture of decomposing vegetable or food waste, bedding material, and vermicast. This process of producing vermicompost is vermicomposting.

→ Six Easy steps to set up a worm Bin-

1. Acquire a Bin

2. Prepare the bedding

3. Add the worms.

4. Bury food scraps under bedding

5. Place a full sheet of dry newspapers on the top of the bedding.

6. Cover and choose a spot for bin-



2. Explain Vermiculture meaning and its Economic Importance?

Ans. Vermiculture means "artificial rearing" or "cultivation of worms" (earth worms) and the technology is the scientific process of using them for the betterment of human beings. Vermicompost is the excreta of earth worm, which is rich in humus.

### Economic Importance of Vermiculture

Earthworm are of great importance to man, they play an important role in agriculture and are the best friends of farmers. as they are continuously ploughing and manuring the soil.

The faeces of the worms make good manure. By burying the dead and decayed matter. The excretory wastes and other secretions of the worms also enrich the soil.

There are many more great importance of Economy due to Vermicompost or by worms.



Q3. Explain Vermicompost technology?

Ans. Vermicompost can be described as a complex mixture of Earth worm faeces, humified organic matters & micro-organisms which when added to the soil or plant growing media increases germination growth plant flowering and food fruit production and accelerates development of wide range of plant species. The enhanced plant growth may be attributed to various direct and indirect mechanisms.

Vermicompost enhances plant growth further than expected because of nutrient supply and improvement in the physical condition of substrate

- Earthworms ingest microbes
- Some are digested others pass through gut.

Q4. Explain nutritional composition of Vermicompost of plants.

Ans. Vermicompost rich in nitrogen potassium and phosphorus micronutrients beneficial soil microbes & also contain plant growth hormones and enzymes.



# Practical Activity conducted by the NEP Students at Vermicompost unit







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Department of Zoology

Add-on course on Vermicompost Technology

REPORT

Name of the course : "Vermicompost Technology".

Name of the department: Zoology

Name of the B.O.S : Dr. Srilaxmi.K  
[Asst. professor Dept. of Zoology  
C.B. College, Bhalki]

Number of Students : 26

BOS Meeting Date : 18/12/2021

Start date of the course : 10/01/2022

End date of the course : 30/03/2022

Department of Zoology conducted Add-on course on "Vermicompost Technology". Vermicompost Technology helps students for self employment. It is helpful in raising seedlings and crop production. Vermicompost is becoming major component of organic farming and this technology is also helpful in culturing of the earthworms, one can get benefits from selling them.

*R. Patil*  
HOD

HEAD OF ZOOLOGY DEPT.  
Karnatak Arts, Sci. & Commerce College  
B I D A R

*[Signature]*

PRINCIPAL  
PRINCIPAL  
Karnataka Arts Sci. & Com. College  
BIDAR-585401



ಶ್ರೀ. ವಾಣೀಜ್ಯ ಮತ್ತು ವಿಜ್ಞಾನ ಸಹಾಯಕಿಯಾಗಲಿ, ಬೀದರ್  
ಘಟಿತ to Gulbarga University, Kalaburagi  
RE-ACCREDITED WITH 'A' Grade CCPA, 3, 24



Est'd 1970

**KARNATAK ARTS, SCIENCE & COMMERCE COL**  
College with Potential for Excellence Status Awarded by U  
ISO 9001 : 2015

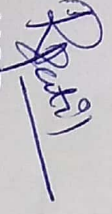
# CERTIFICATE

OF ACHIEVEMENT

This Certificate is Proudly Presented to

**Mr. Srikande Karan**

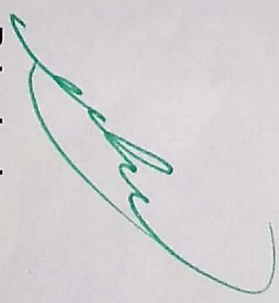
of class B.Sc I Semester NEP with register number U04AE2150125,  
has successfully completed the value added course on "VERMICOMPOST TECHNOLOGY"  
conducted by Department of Zoology during the year 2021-2022

  
HOD

**HOD**

**Department of Zoology**  
Karnatak College, Bidar

Principal



**PRINCIPAL**  
Karnataka Arts Sci. & Com. College  
BIDAR-585401



# Students Attendance Register

Admission No.	Roll Number	Names	Date														
			No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1	Shakuntala		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	2	Nisaaga		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	3	Samara Siba Reddy		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4	Tushil D		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	5	Kavya		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	6	Madha Saher		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	7	Saikande Karan		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	8	Nikhil Fatima		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	9	Ramsha Zussmir		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	10	Shayrobbawani		1	1	2	3	3	3	3	3	3	4	3	3	3	3
	11	Afzaa Shaukat		1	2	3	4	4	5	6	7	8	9	10	11	12	13
	12	B Preshpa		1	2	3	4	4	5	6	7	8	9	10	11	12	13
	13	Ayesha Farheen		1	2	3	4	4	5	6	7	8	9	10	11	12	13
	14	Madha Mahaveer		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	15	Amru Rabeer		1	1	1	2	2	3	4	4	5	6	7	8	9	10
	16	Nagesh		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	17	Leena		1	2	3	4	5	6	7	7	8	8	9	9	10	11
	18	Neha Fatima		1	2	3	4	5	5	6	7	8	9	9	10	11	12
	19	Tabasum Begum		1	2	3	4	4	5	6	7	8	9	10	11	12	13
	20	Safa fatima		1	2	3	4	4	5	6	7	8	8	9	10	11	12
	21	Bilgees Ishaq		1	2	3	3	4	5	5	6	7	8	9	10	11	12
	22	Lubna Shafiya		1	2	3	4	4	5	5	6	7	8	9	10	11	12
	23	Maanalee Maheburani		1	1	1	2	3	3	4	4	5	6	7	8	9	10
	24	Veesh		1	2	3	4	4	5	6	7	8	9	10	11	12	13
	25	Maahaveer		1	2	3	3	4	5	5	6	7	8	9	10	11	12
	26	Pamika		1	2	3	3	4	5	6	7	8	9	10	11	12	13

Signature of Lecturer with Date