



H.K.E. SOCIETYS
B.V.BHOOMARADDI ARTS, SCIENCE AND
COMMERCE COLLEGE, BIDAR



Value added course on
VERMICOMPOST TECHNOLOGY
2017-18

Course co-ordinator

Dr.V.M.Channashetty
Head of
Department of Zoology



H.K.E. Society's

**B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY**

VALUE ADDED COURSE 2017-2018

Course Name : Vermicompost Technology
Duration : 30 Hrs
Course Coordinator : Dr.V.M.Channashetty
Time of Course : 09:00 to 10:00Am Practical's on Sunday
Number of Students : **22**

Name of the lecturers

1. Dr.V.M.Channashetty
2. Dr.Ranibai.Patil
3. Dr.Shivputra Shambhu

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DEPARTMENT OF ZOOLOGY**



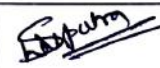
VALUE ADDED COURSE 2017-2018

Vermicompost Technology

Instiutional BOS Meeting

The institutional BOS meeting of the Department of Zoology for the Value added course on "Vermicomposting Technology" was held on 12/11/2017 at IQAC room at 11.15am

Institutional BOS

Sl. No	Name	Institute	Designation	Signature
1	Dr.V.M.Channashetty	HOD Department of Zoology B.V.B Degree college Bidar	Chairman	
2	Dr.Ranibai.Patil	Guest Lecture Department of Zoology B.V.B Degree college Bidar	Member	
3	Dr.Shivputra Shambhu	Horticulture Office, Bidar	Director of Horticulture	

At the beginning of the meeting chairman of the institutional BOS welcomed all the members and briefed them about the progress of the Department of Zoology. The members appreciated and expressed their satisfaction about the course and activities of the department

After the discussion following resolutions were made

Item 1. Starting of value added course on Vermicompost Technology

The BOS discussed and resolve that the course should be started for JANUARY 2018.

Item 2. Approval of the syllabus for value added course

The BOS discussed and approved the syllabus for the value added course on Vermicomposting technology.

Item 3. Criteria for admission, regulation and policied to run the course and examination pattern

The BOS discussed and approved the criteria for admission and resolved that the student should have enrolled in BOS is concluded eith Vote of thanks by Dr.V.M.Channashetty
Head of the Department

The following members were present in the meeting

1. Dr.V.M.Channashetty
2. Dr.Ranibai.Patil
3. Dr.Shivputra Shambhu

Date: 5/11/2017

To,

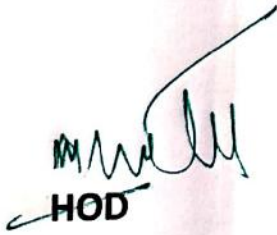
The Principal
B.V.Bhoomaraddi College of Arts,
Science and Commerce,
BIDAR

Sub: Request to grant permission to start Value added course on
Vermicompost Technology from the academic year
2017-2018.

Respected Sir,

We would like to start the Value added course on Vermicompost
Technology from the academic year 2017-18 with intake of 22
students. Please permit us to start the Value added course and do the
needful.

Thanking You.



HOD

Head of Zoology Dept.
B. V. B. College, BIDAR



PRINCIPAL

PRINCIPAL
B.V.Bhoomaraddi College
of Arts, Science & Commerce
BIDAR-585 403.

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**B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY**

Value added course 2018-19 on "Vermicompost Technology"
Time table Theory (Time: 09-10am)

SL No	Date	Days	Signature
1	06 Jan 2018	Saturday	Vme
2	07 Jan 2018	Sunday	Vme
3	13 Jan 2018	Saturday	Vme
4	14 Jan 2018	Sunday	Vme
5	20 Jan 2018	Saturday	Vme
6	21 Jan 2018	Sunday	Vme
7	27 Jan 2018	Saturday	Vme
8	28 Jan 2018	Sunday	Vme
9	03 Feb 2018	Saturday	Vme
10	04 Feb 2018	Sunday	Vme
11	10 Feb 2018	Saturday	Vme
12	11 Feb 2018	Sunday	Vme
13	17 Feb 2018	Saturday	Vme
14	18 Feb 2018	Sunday	Vme
15	24 Feb 2018	Saturday	Vme
16	25 Feb 2018	Sunday	Vme
17	03 Mar 2018	Saturday	Vme
18	04 Mar 2018	Sunday	Vme
19	10 Mar 2018	Saturday	Vme
20	11 Mar 2018	Sunday	Vme

Practical Time-Table 2017-2018[10:30 Am-12:30 Pm]

1	07 Jan 2018	Sunday	WMC
2	14 Jan 2018	Sunday	WMC
3	21 Jan 2018	Sunday	WMC
4	21 Jan 2018	Sunday	WMC
5	28 Jan 2018	Sunday	WMC
6	04 Feb 2018	Sunday	WMC
7	11 Feb 2018	Sunday	WMC
8	18 Feb 2018	Sunday	WMC
9	25 Feb 2018	Sunday	WMC
10	04 Mar 2018	Sunday	WMC


HOD

Head of Zoology Dept.
B. V. S. College, BIDAR.


Principal

PRINCIPAL
B.V.Bhoomaradi College
of Arts, Science & Commerce
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**B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY**

Value added course on "Vermicompost Technology"

Preamble: Vermicomposting truly is nature's great disappearing act! Aristotle once said ,
"Worms are the Intestine of the Earth"

Using worms to convert decomposing food waste onto nutrient -rich fertilizer is simple ,
inexpensive , energy efficient and a great way to teach Students to become Life -Long -
Recyclers.

Learning Outcomes

- Students can construct their own farm and thereby can get income of Rs.7000-8000.
- Students /Farmers by using Vermicompost in their fields can increase the crop yield .
- They can get the jobs in Educational institutes AS Vermicompost/Vermiculture Technician.
- It will lead towards Organic Farming and Healthy Food .
- The Candidate generate income by supplying worms ,Vermiwash and Vermicompost.
- By Developing and Propogating Vermicompost Technology will directly or indirectly help to prevent environmental pollution by using Vermicompost in the field and there by increasing crop yield he will help to solve food problems.
- In Today's World , recycling of garbage has become necessary in order to sustain our Health and Environment.

**So let for Four R 's of Recycling . Reduce ,Recycle ,Restore i.e.certificte course in
"VERMICOMPOST TECHNOLOGY"**

Instructional Design:-

This course is of 30 hours duration which includes theory classes and Practical's.

Eligibility: Students enrolled in B.Sc. program of this college No. of Seats: 25



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DEPARTMENT OF ZOOLOGY

Value added course on "Vermicompost Technology"

Theory:

Unit 1- VERMICOMPOST

06hrs

- General introduction about Vermiculture and Vermicompost.
- Role in biotransformation of residues generated by Human activity and Production of Fertilizers.
- Choosing the right earthworm .Useful species of earthworm

Unit II- EARTHWORM BIOLOGY

06hrs

- Taxonomy , Anatomy
- Physiology and Reproduction of Lumbricidae
- Vital cycle of *Eisenia Fetidae*
-

Unit III - VERMICOMPOST TECHNOLOGY

04hrs

- Earthworm compost for home gardens.
- Earthworm composting larger scale .
- Earthworm Farming extraction, Vermicomposting harvest and processing.
-

Unit IV- NUTRITIONAL COMPOSITION

04hrs

- Vermicompost for plant.
- Comparison with other fertilizers.
- Vermiwash Collection , composition and use.
- Enemies of Earthworms , Sickness and worms enemies.

Practicals:

- Key to identify different types of Earthworms. 2hrs
- Field trip-collection local Earthworms and their identification. 2hrs
- Study of Vermiculture ,Vermiwash and Vermicompost equipments devices 2hrs
- Preparation of vermibed , maintainance of Vermicompost ,harvesting ,packing 2hrs
transport and storage of vermicompost
- Study of Worms disease and enemies , as study the effect of vermicompost 2hrs
and vermiwashon any 2 short duration crop plants.

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DEPARTMENT OF ZOOLOGY

List of students for Value added course 2018-19 on
" Vermicompost Technology "

SL No	Name of the Students	Contact no	Signature
1	Deepika Revansiddappa	7022110612	
2	Shabari Naganna	9886618533	
3	Ambika Dashrath	9902947828	
4	Sarita Sharanappa	7090999361	
5	Pooja Rajendra	9036095124	
6	Aishwarya Mallikarjun	9141481560	
7	Nikita Vijaykumar	7676264005	
8	Ashwini Laxman	7060335078	
9	Santosh Dileep	8884907977	
10	Amit Basavaraj	9008346301	
11	Zumman Nazeer Ahamad	94811284914	
12	Dharmaprakash Manikappa	6361743656	
13	Paul Pundalik	8548091881	
14	Priya Garje	9632694643	
15	Chandralekha Swamy	9611600935	
16	Anuradha Suresh Kamble	9113068944	
17	Santosh Kumar .G	8151831202	
18	Vijaykumar Nagnath	9663830429	
19	Vaishali Shivaraj	8549925407	
20	Aishwarya Motiram	8660212579	
21	Rukmini Reddy	9008318941	
22	Ashish Bhosle	9035713236	

HOD

Head of Zoology Dept.
B. V. B. College, BIDAR.

Principal

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BIDAR-585 403.



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B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY

NOTICE

All the students are hereby informed that Department of Zoology is offering the value added course on Vermicompost Technology interested students can enroll their names with any faculty of Department of Zoology on or before 02/12/2017


HOD

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B. V. B. College of Arts, Science & Commerce


Principal

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**B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY**

NOTICE

All the students enrolled in Vermicompost Technology are informed that CIE Examination for this course is going to be held on 25/01/2018 at Department of Zoology.


HOD

Head of Zoology Dept.
B. V. B. College. BIDAR.


Principal


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**B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY**

NOTICE

All the students enrolled in Vermicompost Technology are informed that Course End Examination for this course is going to be held on 23/03/2018 at Department of Zoology.



HOD

Head of Zoology Dept.
B. V. B. College. BIDAR.



Principal

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BIDAR-585 403.



H.K.E. SOCIETY'S
**B.V. BHOMARADDI COLLEGE OF ARTS, SCIENCE
 & COMMERCE BIDAR - 585 403. (K.S.)**

Phone : 08482-235207

(Affiliated to Gulbarga University, Kalaburagi)



Zoology I
2017-18 (II Sem)
Present

DEPARTMENT OF ZOOLOGY




CERTIFICATE COURSE IN

VERMICOMPOST TECHNOLOGY

FOR THE ACADEMIC YEAR 2017-2018

LIST OF STUDENTS ADMITTED

COURSE CODE NO: _____

Sl. No.	Name of the Student	Class/ Sem.	Roll. No.	Cell No.	E-mail ID	Photo with Signature
1	Dharamprakash	Bsc II nd	28	6361743656	dhdharamprakashhall:khed@gmail.com	 Dharamprakash
2	Santosh Kumar. G	BSc II nd	10	8151831202	santoshkumargourshetty@gmail.com	 Santosh
3	Amit. B	BSC II nd	23	9008346301	amitsagar999@gmail.com	 Amit

**B.V. BHOMARADDI COLLEGE OF
Practical Class**

Academic Year 2017-18

Society's
ARTS, SCIENCE & COMMERCE, Bidar
Attendance Register
Class D.S. & A Subject Technology

Sl. No.	Roll No.	Reg. No.	Name of Student	Date	No. of Class																													
					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
			Drepika 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	P	P	P	P		
			Shabari Naganna		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		
			Ambika Dahanik		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		
			Sarita Charamppa		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		
			Pooja Rajendra		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		
			Aishwarya M		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		
			Niketa Vijaykumar		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		
			Ashwini Kumar		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		
			Santosh Dilip		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		
			Amit Basavaraj		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		
			Zumman Nazam		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		
			Dhanaprasanna		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		
			Paul Prudalok		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		
			Brija Ganje		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		
			Chandnalekha S		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		
			Anunadha Suresh		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		
			Santosh Kumar S		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		
			Vijay Kumar N		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		
			Vaishali Chinnay		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		
			Aishwarya Prasad		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		
			Rukmini		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		
			Ashish Bhosle		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		

Signature of Lecturer with Date

[Handwritten Signatures]



DEPARTMENT OF ZOOLOGY

THEORY AND PRACTICAL EXAMINATION ATTENDANCE SHEET

LIST OF STUDENTS FOR VALUE ADDED COURSE 2017-18 ON
" Vermicompost Technology "

SL No	Name of the Students	Theory	Practical
1	Deepika Revansiddappa	Deepika	Deepika
2	Shabari Naganna	Shabari	Shabari
3	Ambika Dashrath	Ambika	Ambika
4	Sarita Sharanappa	Sarita	Sarita
5	Pooja Rajendra	Pooja	Pooja
6	Aishwarya Mallikarjun	Aishwarya	Aishwarya
7	Nikita Vijaykumar	Nikita	Nikita
8	Ashwini Laxman	Ashwini	Ashwini
9	Santosh Dileep	Santosh	Santosh
10	Amit Basavaraj	Amit	Amit
11	Zumman Nazeer Ahamad	Zumman	Zumman
12	Dharmaprakash Manikappa	Dharm	Dharm
13	Paul Pundalik	Paul	Paul
14	Priya Garje	Priya	Priya
15	Chandralekha Swamy	Chandralekha	Chandralekha
16	Anuradha Suresh Kamble	Anuradha	Anuradha
17	Santosh Kumar .G	Santosh	Santosh
18	Vijaykumar Nagnath	Vijaykumar	Vijaykumar
19	Vaishali Shivaraj	Vaishali	Vaishali
20	Aishwarya Motiram	Aishwarya	Aishwarya
21	Rukmini Reddy	Rukmini	Rukmini
22	Ashish Bhosle	Ashish	Ashish

V.M.K.
HOD

Head of Zoology Dept.
B. V. B. College. BIDAR

Principal
S. S. S.
PRINCIPAL
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BIDAR-585 403.

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**B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY**

Main Question Paper (Theory)
Value Added Course
Paper: **Vermicompost Technology**

Time: 40 Minutes

Max Marks: 10

Q. No. I. Answer any two of the following Questions.

5x2=10

II. Draw the diagram wherever necessary.

1. Explain in brief alimentary canal of Earthworm.
2. Explain key to identify types of Earthworm.
3. Describe the life history of Earthworm.

**B.V.BHOOMARADDI COLLEGE OF ARTS, SCIENCE AND COMMERCE, BIDAR
DEPARTMENT OF ZOOLOGY**

Main Question Paper (Theory)
Value Added Course
Paper: Vermicompost Technology"

Time: 2 hours

Max Marks: 40

Note:

1. Answer all the Questions
2. Draw the diagram wherever necessary

Q.No.1. Answer in brief any five of the following

2x5=10

1. What is Vermicompost?
2. Define Vermiculture.
3. Mention the enemies of Earthworm.
4. Classify the types Earthworm.
5. What is Vermiwash?
6. Mention the Diseases of worms.

Q.NO.II. Answer any two of the following

5x2=10

1. Describe the digestive system of Earthworm.
2. Describe the vermicompost equipments devices.
3. Explain key to identify types of Earthworm.

Q.NO.III Answer any two of the following

10x2=20

1. Describe the life history of Earthworm .
2. Explain the preparation of vermibed , vermiwash and harvesting procedure.
3. Explain in detail account on Vermicompost technology.

Internal Assessment Test (Theory)

10
10

Q. 1. Explain in brief alimentary canal of Earthworm

→ The alimentary canal is long and straight and runs between the first and last segment of the body.

→ Mouth is the first segment called prostomium and is covered by peristomium, which acts as a wedge to force an open crack in the soil.

→ The prostomium is sensory in nature.

→ It extends from 2nd to 3rd segment i.e. Buccal Cavity.

→ Buccal cavity holding the food during Ingestion.

→ Pharynx is a thin-walled, pear-shaped cavity which extends till 4th segment.

→ Pharynx continues into the oesophagus.

→ Oesophagus is a small narrow thin tube-like structure present on 5-7 segment.

→ Gizzard present on 8-9 segment.

→ It is a highly muscular thick-walled tube present from the 15th segment till anus i.e. the last segment.

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DEPARTMENT OF ZOOLOGY

RESULT SHEET

Sl.No.	Name of the Students	Class	I.A Marks	Theory Marks	Total Marks Obtained	Remarks
1	Deepika Revansiddappa	Bsc 2 nd sem	09	38	47	PASS
2	Shabari Naganna	Bsc 2 nd sem	09	37	46	PASS
3	Ambika Dashrath	Bsc 2 nd sem	10	38	48	PASS
4	Sarita Sharanappa	Bsc 2 nd sem	09	37	46	PASS
5	Pooja Rajendra	Bsc 2 nd sem	10	39	49	PASS
6	Aishwarya Mallikarjun	Bsc 2 nd sem	09	36	45	PASS
7	Nikita Vijaykumar	Bsc 2 nd sem	09	38	47	PASS
8	Ashwini Laxman	Bsc 2 nd sem	09	37	46	PASS
9	Santosh Dileep	Bsc 2 nd sem	09	39	48	PASS
10	Amit Basavaraj	Bsc 2 nd sem	10	38	48	PASS
11	Zumman Nazeer Ahamad	Bsc 2 nd sem	10	38	48	PASS
12	Dharmaprakash Manikappa	Bsc 2 nd sem	09	37	46	PASS
13	Paul Pundalik	Bsc 2 nd sem	09	39	48	PASS
14	Priya Garje	Bsc 2 nd sem	10	36	46	PASS
15	Chandralekha Swamy	Bsc 2 nd sem	09	37	46	PASS
16	Anuradha Suresh Kamble	Bsc 2 nd sem	09	38	47	PASS
17	Santosh Kumar .G	Bsc 2 nd sem	09	38	47	PASS
18	Vijaykumar Nagnath	Bsc 2 nd sem	10	39	49	PASS
19	Vaishali Shivraj	Bsc 2 nd sem	09	38	47	PASS

20	Aishwarya Motiram	Bsc 2 nd sem	09	39	48	PASS
21	Rukmini	Bsc 2 nd sem	09	37	46	PASS
22	Ashish Bhosle	Bsc 2 nd sem	10	39	49	PASS


HOD

Head of Zoology Dept.
B. V. B. College, BIDAR


Principal

Principal
B.V.Bhoosmaraddi College
of Arts, Science & Commerce
BIDAR-585 403.





H.K.E. SOCIETY'S

ESTD : 1960

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B.V. BHOOMARADDI COLLEGE OF ARTS, SCIENCE & COMMERCE, BIDAR

(Affiliated to Gulbarga University, Kalaburagi)

Accredited with 'A' Grade by NAAC

Department of Zoology

CERTIFICATE

This is to certify that Kum./Kumari Deepika Dt Revansiddappa of

BSC II Sem Bearing Register No. / Roll No. 1862380 has

Successfully completed add-on Course/Certificate course in " Vermicompost

Technology " during the academic year 2017...-2018....

Head of the Dept.

S3mf
IOAC Co-ordinator
IOAC CO-ORDINATOR
Bhoomaraddi College
Science & Commerce Bidar-3.

S3mf
Principal
PRINCIPAL
B.V.Bhoomaraddi College
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