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OM	Treasurer Secretary



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Industry Certified Value Added Programme On

MUSHROOM CULTIVATION AND VERMICOMPOSTING

22/02/2022 to 26/02/2022

Objective:

- To give an insight on Entrepreneurship to the students
- To provide hands on training in Biofertilizer production and Mushroom cultivation so that students will be able
 to learn the basic aspects of Mushroom cultivation and vermi-composting.

Need for the Value Added Program:

"Mushroom" is an application part of Microbiology and Industrial biotechnology course work the students
have learnt. This VAP will help them to develop entrepreneurship focus on Mushroom based product
development. Vermicomposting will teach them how to start a Biofertilizer unit.

Target Participants:

Class: II B.Tech. Biotechnology

No. of students: 48

Duration: 5 Days

Expected Outcome:

- The students will learn the necessary skills and knowledge for the cultivation of Mushroom and mushroom based product development and production of Bioferlizer (Vermicompost).
- This workshop also aims to motivate the students to take up Entrepreneurship as career prospective in future.

PROGRAM SCHEDULE

DATE	9.00 am to 10.40 am	11.00am to 12.40pm	1.30 pm to 4.00 pm
22/02/2022	Inaugural Function	Introduction to Vermicomposting	Design, Layout and Preparation
23/02/2022		gy: Visit to Vermi Compost Farm at on, Kulloorsandai, Virudhunagar	
24/02/2022	Application of vermicompost and vermiwash for plant growth study	Introduction to Mushroom cultivation-design & layout	
25/02/2022	Cultivation of Mushroom: Sterilization of straw for Bed Preparation (Hands-on training by External Expert)	Spawn preparation and seeding (Hands-on training by External Expert)	
26/02/2022	Mushroom Bed preparation, Mainten Techniques (Hands-on training by		



(Autonomous) S.P.G.Chidambara Nadar - C.Nagammal Campus S.P.G.C. Nagar, Virudhunagar.

KAMARAJ/AO/2021-2022/

16/02/2022

CIRCULAR

The Department of Biotechnology is going to organize an Industry Certified Value Added Programme on "MUSHROOM CULTIVATION AND VERMICOMPOSTING" for II year B.Tech Biotechnology students. The course is scheduled from 22nd to 26th February 2022. The programme schedule for the VAP is given below:

PROGRAM SCHEDULE

DATE	9.00 am to 10.40 am	11.00am to 12.40pm	1.30 pm to 4.00 pm
22/02/2022	Inaugural Function	Introduction to Vermicomposting	Design, Layout and Preparation
23/02/2022	Application of vermicompost and vermiwash for plant growth study	Introduction to Mushroom cultivation design & layout	
24/02/2022	Vermicomposting Technology: Visit to Vermi Compost Farm at JP Sustainability Foundation, Kulloorsandai, Virudhunagar		
25/02/2022	Cultivation of Mushroom: Sterilization of straw for Bed Preparation (Hands- on training by External Expert)	Spawn preparation and seeding (Hands-on training by External Expert	
26/02/2022	Mushroom Bed preparation, Maintenance and Harvesting Techniques (Hands-on training by		Valedictory Function

Copy to:

Dr. S. SENTHIL, M.E., Ph.D., PRINCIPAL (I/c)

- 1. Circulated to all Second Year Biotech Students through the Frain dig and Technology
- 2. HOD / BT 2. HOD / BT

 S.P.G. Chidan bara Nation - C. Magammal Campus,

 3. Circulated to all BT Dept. Staff Members through their email and K. Vallakulan - 625 701.

Superintendent / Administrative Office (Near VIRUDHUNAGAR).

5. IQAC 6. File

Administrative 2 Copy submitted to the Secretary

Course Code	Course Name	L	Т	P	C
	Mushroom Cultivation and Vermicomposting	B			

a. Preamble

This course enables the students to

- Understand the basic concepts, principles, potentials and limitations of mushroom cultivation and vermiculture techniques.
- Apply the active compounds of mushroom for developing a solution for health care problems.
- Develop mushroom cultivation and vermiculture skills for entrepreneurial activity.
- Appreciate the skills / devices / practices associated with the compact procedures of biodegradation of unwanted solid residues

b. Course Outcomes

After successful completion of the course,

CO.No.	Course Outcome	Knowledge Level
COI	The students will be able to apply the active compounds of mushroom in food and pharmaceutical industry.	K3 (Apply)
CO2	The students will be able to implement the cultivation techniques for mushroom production.	K3 (Apply)
CO3	The students will be able to apply post-harvest technology to preserve the quality of the product.	K3 (Apply)
CO4	The students will be able to evaluate the significance of earthworms in increasing the soil fertility.	K4 (Analyze)
CO5	The students will be able to execute the techniques of vermicomposting for large scale production and marketing.	K3 (Apply)

c. Course Syllabus

UNIT I INTRODUCTION TO MUSHROOM CULTIVATION 06

Total: 30 Hours

12

Introduction to mushroom cultivation- design and layout, spawn preparation, cultivation techniques; Present status of mushroom industry in India; Cultivable edible mushrooms; Food value of edible mushrooms.

UNIT II CULTIVATION OF MUSHROOM

Hands-on training – Sterilization of straw for bed preparation; Preparation of mushroom cultivation bed; Cultivation of oyster mushroom and white button mushroom; Maintenance of culture bed; Harvesting techniques.

UNIT III VERMICOMPOSTING TECHNOLOGY 04

Need for earthworm culture; Scope and importance of vermiculture; Small scale and commercial methods: process & advantages; Vermicomposting equipment - devices, design and maintenance of vermi bed.

UNIT IV PRODUCTION OF VERMICOMPOST 08

Hands-on training – Pretreatment of waste for vermicompost bed; Preparation of vermicompost setup; Different methods of Vermicompositing (Heap method, Pot method, and Tray method); Collection and preservation of vermicompost and vermiwash; Application of vermicompost and vermiwash for plant growth study.

TEXT BOOKS:

- 1. Robin Gogoi Yella Rathaiah T R Borah, Mushroom Cultivation Technology, Scientific Publishers, 2006.
- 2. S.C. Tiwari & Pankaj Kapoor, Mushroom Cultivation, 2018.
- 3. Clemens NPCS Board of Consultants & Engineers, The Complete Technology Book on Vermiculture and Vermicomposting, 2004
- 4. Keshav Singh, Textbook of Vermicompost: Vermiwash and Biopesticides, 2014

REFERENCES:

- 1. Sultan Ahmed Ismail, 2005. The Earthworm Book, Second Revised Edition. Other India Press, Goa. India.
- 2. Vermiculture Technology; Earthworms, Organic Wastes and Environmental Management, 2011, Edited by Clive A Edwards, Norman Q Arancon & Rhonda Sherman, CRC Press
- 3. www.organicgrowingwithworms.com.au
- 4. New York Times, Scientists Hope to Cultivate and Immune System for Crops



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S.P.G.O. Nagar, K. Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF BIOTECHNOLOGY Industry Certified Value Added Programme MUSHROOM CULTIVATION AND VERMICOMPOSTING

22/02/2022 to 26/02/2022

MANUAL PROPERTY.

DAY 1



Session 1 & 2: Dr K.Geetha: Introduction to Vermicomposting



Session 3: Dr S. Karthikumar: Hands-on session on Small scale Vermicomposting bed preparation

DAY 2



Session 4: Dr R.Shyam Kumar: Applications of Vermicomposting Session 5: Dr K.Geetha: Introduction to Mushroom cultivation and Vermiwash





Session 6: Dr S.Karthikumar: Hands-on session on Pure culture preparation for mushroom cultivation

nome Coordinator

+ Romus

DAY 3



irudhunagar, Tamil Nadu, India nnamed Road, Tamil Nadu 626004, India Lat 9.543756° Long 77.988989° 24/02/22 10:43 AM

Session 7: Industrial Visit: Jeypee Biotechs, Kullursandai, VNR

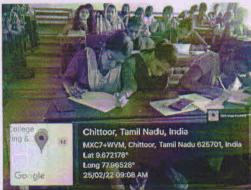
Session 7: Jeypee Biotechs: Introductory session on vermicomposting





Session 8: Mr R. Palaneeswar: Large scale vermicomposting demo Session 9: Jeypee Biotechs: Vermiwash production and application demonstration

DAY 4



Session 10: Report writing on Industrial visit



Session II: Mr R. Vijay Kumar: Hands-on session: Mushroom farming





Session 11: Mr R. Vijay Kumar: Hands-on session: Mushroom farming Session12: Mr R. Vijay Kumar: Theory session on Mushroom cultivation

rogramme Coordinators

DAY 5



Session 13: Hands-on session on Spawn preparation

Session 3: Hands-on session on Paddy Straw pretreatment



Session 14: Mr R. Vijay Kumar: Hands-on session on Mushroom cultivation



Session 15: Thiru.T.J.Jeyakumar, M.B.A.: Inspection of Mushroom beds prepared by students for Oyster Mushroom cultivation

Programme Coordinators

to, hut

5

VALEDICTORY FUNCTION





Student's oral feedback during Valedictory function

Appreciation certificate to Mr R. Vijay Kumar, Vcare Agro Tech Mushroom Farm, Resource person & Industry expert





Certificate distribution to students

Programme Coordinators

HoD/BT



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
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DEPARTMENT OF BIOTECHNOLOGY Industry Certified Value Added Programme On

MUSHROOM CULTIVATION AND VERMICOMPOSTING

22/02/2022 to 26/02/2022

ONLINE PROCTORED EXTERNAL EXAMINATION - 28/05/2022

PHOTOS

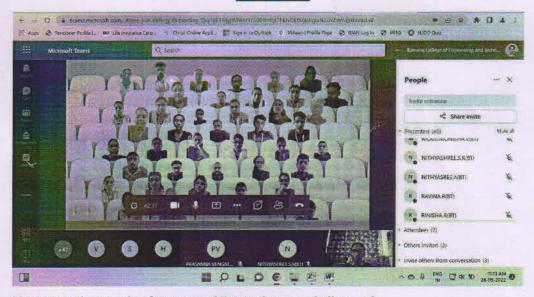


Photo 1: Online Meeting for proctored External exam - Online mode



Photo 2 & 3: Students attending Online proctored mode external exam for Value Added Course

Programme Coordinators

HoD/RT

VAP- MUSHROOM CULTIVATION AND VERMICOMPOSTING: EXTERNAL ASSESSMENT TEST 2021-22

Geetha.K < geethabt@kamarajengg.edu.in >

Wed 5/25/2022 4:49 PM

To: 20UBT <20ubt@kamarajengg.edu.in>

Cc: PRADIBA.D cradibabt@kamarajengg.edu.in>;Shyam Kumar Rajaram

<shyamkumarbt@kamarajengg.edu.in>;Karthikumar.S <karthikumarbt@kamarajengg.edu.in>;HODBT
<hodbt@kamarajengg.edu.in>

Dear Students,

Greetings!

You are requested to join the meeting to attend VAP- MUSHROOM CULTIVATION AND VERMICOMPOSTING: EXTERNAL ASSESSMENT TEST 2021-22 on 28/05/2022 at 11.00 am.

All students are instructed to bring Laptop to take the exam. Join the link 10 min before the exam timing. Only those who attended the VAP completely are eligible to take the test. Hence only those students may join the link and attend the test. The test will be conducted in proctored mode in the department.

Link:

https://teams.microsoft.com/l/meetup-

join/19%3ameeting_ZjdjNjE1MjgtMWU1YS00YmRjLThkNDEtMjk4YjIxN2UxZmVi%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-

212d4e95e68a%22%2c%22Oid%22%3a%224948241d-c837-4241-ab0b-de08e44460f9%22%7d

Join conversation

teams.microsoft.com

BEST OF LUCK!

Regards,

Dr K.Geetha

Dr S.Karthikumar

Dr R.Shyam Kumar 3.

Programme Coordinator

Dr K.Geetha

Associate Professor

Department of Biotechnology



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DEPARTMENT OF BIOTECHNOLOGY Industry Certified Value Added Programme MUSHROOM CULTIVATION AND VERMICOMPOSTING

22/02/2022 to 26/02/2022

FINAL EXTERNAL ASSESSMENT TEST

Part A	20 1	1 - 20	Marks
		= 311	VISITE

$Part A - 30 \times 1 = 30 Marks$
1. Which of the following is a commonly used earthworm species for the vermicomposting process?
a) Eisenia fetida
b) Perionix excavatus
c) Both (a) and (b)
d) None of the above
2. The highly decomposed organic matter rich in minerals like nitrogen, phosphorus, and potassium, in particular, produced from the activity of earthworms is called
a) Humus
b) Vermicompost
c) Worm casting

- 3. Vermicompost is used as a biofertilizer because it is rich in
- a) Calcium
- b) Nitrogen
- c) Phosphorus
- d) All of the above

d) Compost bedding

- 4. The moisture level required for vermicomposting should be between
- a) Below 30 per cent
- h) 40 and 50 per cent

5. Why do you need to weigh your worms before putting them in your compost bin?
a) to know how much to feed them
b) to know how many there are
c) to see how much weight they are putting on
d) to know what will be the end product
6. What type of bin is best for vermicomposting?
a) metal
b) plastic
c) wood
d) all the above
7. What among the following will be best suited for the bedding of a vermicomposting bin?
a) shredded paper
b) food
c) eggshells
d) all the above
8. What does it mean if your compost bin begins to smell?
a) You have too much bedding and not enough soil.
b) You are feeding the worms too much.
c) You have too many worms in the bin.
d) You do not have enough feed in the bedding.
9. Which of the following is not a major objective of Vermicomposting?
a) To elevate the value of original material
b) To accelerate the rate of degradation
c) To obtain toxic products
d) To obtain products free of any pollutants

10. The process of covering spawned compost with a suitable material is known as

c) 70 and 80 per cent

d) Above 90 per cent

a) cropping	
b) casing	
c) spawning	
d) composting	
11. There are three main methods of Large scale vermicomposting. Among three whithe need to separate worms from the casting before packaging?	ich method eliminates
a) Windrow system	
b) Raised bed system	
c) Flow-through system	
d) None of the above	
12. What is the optimum C/N ratio of vermicompost?	
a) 11.64	
b) 16.83	
c) 21.64	
d) 10.98	
13. All are true with respect to vermicomposting except	
a) improving soil aggregation,	
b) structure, and soil fertility,	
c) decreasing soil microbial population and enzymes,	
d) improving moisture-holding capacity of soil	
14. The vermitechnology provides vermicompost which is organic fertilizer and as na and gardens.	tural manure for crops
a) True	
b) False	
15. If oxygen levels are high, anaerobic processes will take over and cause chemical reodors that will stress or kill the worms.	eactions and strong
a) True	
h) Folso	

gr.

16. What is the botanical name of oyster mushroom?
a) Pleurotus ostreatus
b) Agaricus bisporus
c) Lentinus edodes
d) Pleurotus eryngii
17. What is the ambient temperature to cultivate button mushroom?
a) 40- 45°C
b) 35 - 40°C
e) 5 - 15°C
d) 20- 35°C
18. What is the average weight of a mushroom bed with four layer of spawn?
a) 1-2 Kg
b) 3-5 Kg
c) 5-10 Kg
d) 10-15 Kg
19. What is the carrier material widely used for spawn production?
a) White sorghum
b) Wheat
c) Rice
d) Beans
20. How many days an oyster mushroom will take to produce first yield during winter session?
a) 5 Days
b) 10 Days
c) 15 Days
d) 30 Days
21. Which of the following is required to sterilize rice straw?
a) Ethanol
b) Formaldehyde

c) Phenol

a) to release heat

d) all of the above

b) to provide air circulation

c) to make buds to come out

22. What is the purpose of making holes in mushroom bed?

23. Mushroom is rich in protein
a) True
b) False
24. Which of the following is not a part of mushroom?
a) Pilus
b) Stipe
c) Annulus
d) Stigma
25. Whish of the following type of mushroom is widely cultivated?
a) White button mushroom
b) Oyster mushroom
c) Paddy straw mushroom
d) Milky mushroom
26. Mycelium embedded in gills are called as
a) Stromma
b) Pilus
c) Stipe
d) Annulus
27. What is the common size of plastic bag used to make mushroom bed?
a) 6 x 12 inches
b) 12 x 24 inches
c) 3 x 6 inches

d) 3 x 24 inches	
28. Where is National Research Centre for Mushroo	om located?
a) Tamilnadu	
b) Kerala	
c) Delhi	
d) Himachal Pradesh	
29. What will be the ratio of mushroom weight before	ore and after drying process?
a) 1: 5	
b) 1: 10	
c) 1:20	
d) 1: 50	
30. How to seed mushroom spawn in a bed?	
a) Middle of the bed as single layer	
b) Bottom of the bed as single layer	
c) Top of the bed as single layer	
d) Multiple layers from bottom to top	

Part $B - 15 \times 2 = 30$ Marks

- 1.Earthworms are considered friends of the farmers. Select from the following the correct reasons for the same:
- A. Earthworms eat the dead leaves and plants and their droppings fertilise the soil.
- B. Earthworms eat the weeds and save the main crop.
- C. Earthworms soften the soil by digging underearth.
- D. The tunnels made by the earthworms provide easy passage to air and water into the soil.
- a) B, C and D
- b) C, D and A
- c) A and C only
- d) A, B and C
- 2. Vermicompost is a manure prepared....?
- a) in factories
- b) from plants
- c) from dead animals
- d) by earthworms
- 3. Match the following:
- (a) Mixed fertilizer
- 1. DAP
- (b) Complex fertilizer
- 2. NPK
- (c) Biofertilizer
- 3. Oil Cake
- (d) Organic fertilizer
- 4. Algae
- a) (a) -1; (b) -2; (c) -3; (d) -4
- b) (a) -2; (b) -1; (c) -4; (d) -3
- c) (a) -3; (b) -2; (c) -1; (d) -4
- d) (a) -4; (b) -3; (c) -2; (d) -1
- 4.In order to get more yield from his fields, a farmer is growing paddy crops over and over again using excess of fertilizer and pesticides. This practice will make the soil of his fields
- a) more useful for paddy crops only

b) fertile for other crops also c) fit for ploughing and sowing seeds d) ultimately unfit for growing any crop 5. Is there any biological biocomposting method for waste degradation other than vermicomposting? a) Yes b) No 6. Which epigenic earthworm species has high ability to tolerate environmental conditions like temperature, pH and moisture contents? a) Eisenia fetida b) Perionix excavatus c) Lumbricus terrestris d) Amynthas mekongianus 7. During vermicomposting why is the pH of the substrate decreasing towards neutral pH? a) Due to addition of water b) Due to addition of earthworms c) Production of carbon dioxide and organic acids by microbial metabolism during decomposition d) Because of decrease in organic matter 8. Why vermicompost contains more NPK than Farm yard manure? a) N in FYM is lost during preparation and storage mainly as NH₃ volatilisation and or NO3 leaching. b) Vermicompost is made from organic waste alone c) Farm yard manure is directly used on plants d) Vermicompost contains earthworms also. 9. To which division does Mushroom belong? a) Basidiomycetes b) Pteridophyta c) Thallophyta

d) Mollusca

	b) Basidiocarp	
	c) Annalus	
	d) Seta	
	11. What is a symptom of mushroom poisoning?	
	a) Mild nausea	
	b) Vomiting	
	c) Diarrhea	
	d) All of the Above	
	12. Mushroom Farm Layout requires	
	a) Composting unit	
	b) Prewetting area	
	c) Both	
	d) None of these	
	13. Spawn is the of Mushroom	
	a) Spores	
	b) Mycellium	
	c) Fruit	
	d) Both a and b	
	14. Alternative name of Agaricus is	
	a) Button mushroom	
	b) Paddy straw mushroom	
	c) Oyster mushroom	
	d) Dhingri mushroom	
	15. Mushrooms are good source of	
	a) Carbohydrates	
	b) Protein	
120		

10. Mycellium produces white or colored umbrella shaped fruiting bodies called_

a) Haphae

b) fertile for other crops also c) fit for ploughing and sowing seeds d) ultimately unfit for growing any crop 5. Is there any biological biocomposting method for waste degradation other than vermicomposting? a) Yes b) No 6. Which epigenic earthworm species has high ability to tolerate environmental conditions like temperature, pH and moisture contents? a) Eisenia fetida b) Perionix excavatus c) Lumbricus terrestris d) Amynthas mekongianus 7. During vermicomposting why is the pH of the substrate decreasing towards neutral pH? a) Due to addition of water b) Due to addition of earthworms c) Production of carbon dioxide and organic acids by microbial metabolism during decomposition d) Because of decrease in organic matter 8. Why vermicompost contains more NPK than Farm yard manure? a) N in FYM is lost during preparation and storage mainly as NH₃ volatilisation and or NO3 leaching. b) Vermicompost is made from organic waste alone c) Farm yard manure is directly used on plants d) Vermicompost contains earthworms also. 9. To which division does Mushroom belong? a) Basidiomycetes b) Pteridophyta c) Thallophyta

d) Mollusca

c) Fats

d) Vitamins

That



Industry Certified Value Added Programme DEPARTMENT OF BIOTECHNOLOGY

MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022



Industry Certified Value Added Programme

MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022

Attendance

							74				-												
44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	S.No.
20UBT044	20UBT043	20UBT042	20UBT041	20UBT040	20UBT039	2008[038	20UBT037	20UBT036	20UBT035	20UBT034	20UBT033	20UBT032	20UBT031	20UBT030	20UBT029	20UBT028	20UBT027	20UBT026	20UBT025	20UBT024	20UBT023	20UBT022	Roll Number
SHANKAR GANESH.M.V	CERLICLADIYA.P	VINODHINI.R	MINUSHA.S	GOWSALYA.K	SAKTHI SUREGA.P	VARSHA.E	LAMIYA BANU.M	BOOJITHA.E	YOGASRI.M	VAISHAALI.A.M	VAIRAMUTHU.P	JEGADEESH.M	JOHN PAUL HUDSON.S	NARASINGAM.R	RINISHA.R	VARSHA.G.V	SUBHIKSHA.S	GOKULNATH.S	SAIBHAVADHARANI.B	ABINAYA.J	VARSHINIRAJI.P	NITHYASREE.A	Student Name
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DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Programme

MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022

Attendance

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	48	47	46	45	S.No.
	20UBT049	20UBT047	20UBT046	20UBT045	S.No. Roll Number
	NITHYASHREE.S.R	AASIF HUSSAIN	PRASANNA VENGATESH.V	HARSINI.S	Student Name
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by gramme Coordinators

1-HoD/BT

Review: VAP- MUSHROOM CULTIVATION AND VERMICOMPOSTING: EXTERNAL ASSESSMENT TEST 2021-

Respondent

20

Anonymous

46:25 Time to complete 38/60

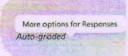
Points

1. Name *	Score	/ 0 pts
Sakthi Surega. P		
2. Roll No *	Score	/ 0 pts
20ubt039		
3. Register No *	Score	/ 0 pts
920420ubt039		
4. Class *	Score	/ 0 pts
ll year		
5. Date *	Score	/ 0 pts
5/28/2022		

PART A: 30 x 1 = 30 Marks

Answer all questions

6. 1. Which of the following is a commonly used earthworm species for the vermicomposting process?



a) Eisenia fetida X

b) Perionix excavatus

C) Both (a) and (b)

d) None of the above

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in particular, produced from the activity of earthworms is called	Auto-graded
a) Humus	
(e) b) Vermicompost ✓	
C) Worm casting	
d) Compost bedding	
8. 3. Vermicompost is used as a biofertilizer because it is rich in	1 / 1 pt Auto-graded
a) Calcium	Auto-groued
(b) Nitrogen	
O c) Phosphorus	
⑥ d) All of the above ✓	
9. 4. The moisture level required for vermicomposting should be between	1 /1 pt
a) Below 30 per cent	Auto-graded
(b) 40 and 50 per cent	
⑤ c) 70 and 80 per cent ✓	
(d) Above 90 per cent	
10. 5. Why do you need to weigh your worms before putting them in your compost bin?	0 /1 pt
a) to know how much to feed them	Auto-graded
b) to know how many there are ×	
C) to see how much weight they are putting on	
d) to know what will be the end product	
11. 6. What type of bin is best for vermicomposting?	0 /1pt
() a) metal	Auto-graded
O b) plastic	
O c) wood 🗸	
(ii) all the above ×	
12. 7. What among the following will be best suited for the bedding of a vermicomposting bin?	0 /1 pt
	0 /1 pt Auto-graded
a) shredded paper ✓	
() b) food	
O c) eggshells	
(d) all the above X	

13. 8. What does it mean if your compost bin begins to smell?	
a) You have too much bedding and not enough soil. X	
b) You are feeding the worms too much.	
C) You have too many worms in the bin.	
d) You do not have enough feed in the bedding.	
14. 9. Which of the following is not a major objective of Vermicomposting?	0 /1 pt Auto-graded
a) To elevate the value of original material	
b) To accelerate the rate of degradation ×	
○ c) To obtain toxic products ✓	
d) To obtain products free of any pollutants	
15. 10. The process of covering spawned compost with a suitable material is known as	1 / 1 pt Auto-graded
a) cropping	
(♠) b) casing ✓	
C) spawning	
(d) composting	
16. 11. There are three main methods of Large scale vermicomposting. Among three which method eliminates the need to separate worms from the casting before packaging?	1 /1 pt Auto-graded
eliminates the need to separate worms from the casting before packaging?	
eliminates the need to separate worms from the casting before packaging? a) Windrow system	
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system	
eliminates the need to separate worms from the casting before packaging? a) Windrow system	
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) Flow-through system	
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) Flow-through system	Auto-graded 0 /1 pt
eliminates the need to separate worms from the casting before packaging? (a) Windrow system (b) Raised bed system (c) Flow-through system (d) None of the above	Auto-graded
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost?	Auto-graded 0 /1 pt
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost?	Auto-graded 0 /1 pt
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost? a) 11.64 b) 16.83	Auto-graded 0 /1 pt
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost? a) 11.64 b) 16.83 c) 21.64 X	Auto-graded 0 /1 pt
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost? a) 11.64 b) 16.83 c) 21.64 X	Auto-graded 0 /1 pt
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost? a) 11.64 b) 16.83 c) 21.64 × d) 10.98	Auto-graded 0 /1 pt Auto-graded
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost? a) 11.64 b) 16.83 c) 21.64 × d) 10.98 18. 13. All are true with respect to vermicomposting except	Auto-graded 0 /1 pt Auto-graded
eliminates the need to separate worms from the casting before packaging? (a) Windrow system (b) Raised bed system (c) Flow-through system (c) (d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost? (a) 11.64 (c) (b) 16.83 (c) 21.64 (c) (d) 10.98 18. 13. All are true with respect to vermicomposting except (a) improving soil aggregation,	Auto-graded 0 /1 pt Auto-graded
eliminates the need to separate worms from the casting before packaging? a) Windrow system b) Raised bed system c) c) Flow-through system d) None of the above 17. 12. What is the optimum C/N ratio of vermicompost? a) 11.64 b) 16.83 c) 21.64 d) 10.98 18. 13. All are true with respect to vermicomposting except a) improving soil aggregation, b) structure, and soil fertility,	Auto-graded 0 /1 pt Auto-graded

 14. The vermitechnology provides vermicompost which is organic fertilizer and as natural manure for crops and gardens. 	
True ✓	
○ False	
20. 15. If oxygen levels are high, anaerobic processes will take over and cause chemical reactions and strong odors that will stress or kill the worms.	1 /1 pt Auto-graded
○ True	
False V	
21. 16. What is the botanical name of oyster mushroom?	1 / 1 pt Auto-graded
(a) Pleurotus ostreatus 🗸	
b) Agaricus bisporus	
C) Lentinus edodes	
O d) Pleurotus eryngii	
22. 17. What is the ambient temperature to cultivate button mushroom?	0 /1 pt Auto-graded
(a) 40- 45°C	
(b) 35 - 40°C	
○ c) 5 - 15°C ✓	
23. 18. What is the average weight of a mushroom bed with four layer of spawn?	0 /1 pt Auto-graded
(a) 1-2 kg ×	
○ b) 3-5 Kg ✓	
O c) 5-10 Kg	
(d) 10-15 Kg	
24. 19. What is the carrier material widely used for spawn production?	0 /1 pt Auto-graded
a) White sorghum 🗸	AND SECTION ASSESSMENT OF THE SECTION ASSESS
(a) b) Wheat ×	
O c) Rice	
O d) Beans	
25. 20. How many days an oyster mushroom will take to produce first yield during winter session?	0 /1 pt Auto-graded
a) 5 Days	Auto-gruueu
(b) 10 Days	
() c) 15 Days ✓	
d) 30 Days X	

26. 21. Which of the following is required to sterilize rice straw?	1 /1 pt Auto-graded
a) Ethanol	
⑤ b) Formaldehyde ✓	
C) Phenol	
O d) Dettol	
27. 22. What is the purpose of making holes in mushroom bed?	1 /1 pt Auto-graded
a) to release heat	M05508-3155-
b) to provide air circulation	
c) to make buds to come out	
d) all of the above	
28. 23. Mushroom is rich in protein	1 /1 pt Auto-graded
a) True 🗸	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(b) False	
29. 24. Which of the following is not a part of mushroom?	1 /1 pt Auto-graded
a) Pilus	Autograve
O b) Stipe	
C) Annulus	
Ø d) Stigma ✓	
30. 25. Whish of the following type of mushroom is widely cultivated?	0 /1 pt
a) White button mushroom	Auto-graded
b) Oyster mushroom	
c) Paddy straw mushroom	
○ d) Milky mushroom ✓	
31. 26. Mycelium embedded in gills are called as	0 /1 pt
a) Stromma	Auto-graded
O b) Pilus	
C) Stipe	
⊚ d) Annulus ×	

1 /1 pt Auto-graded

32. 27. What is the common size of plastic bag used to make mushroom bed?	
a) 6 x 12 inches	
(b) 12 x 24 inches ✓	
C) 3 x 6 inches	
(d) 3 x 24 inches	
33. 28. Where is National Research Centre for Mushroom located?	1 / 1 pt Auto-graded
(a) Tamilnadu	Auto-gradea
(b) Kerala	
C) Delhi	
34. 29. What will be the ratio of mushroom weight before and after drying process?	0 /1 pt
(a) 1: 5	Auto-graded
O b) 1: 10 ✓	
⊚ c)1:20 ×	
O d) 1: 50	
35. 30. How to seed mushroom spawn in a bed?	1 /1 pt Auto-graded
a) Middle of the bed as single layer	Auto grudeu
b) Bottom of the bed as single layer	
c) Top of the bed as single layer	
d) Multiple layers from bottom to top	

PART B: 15 x 2 = 30 Marks

Answer all questions

0 /2 pts Auto-graded

36. 1.Earthworms are considered friends of the farmers. Select from the following the correct reasons for the same:	
A. Earthworms eat the dead leaves and plants and their droppings fertilise the soil.	
B. Earthworms eat the weeds and save the main crop.	
C. Earthworms soften the soil by digging underearth.	
D. The tunnels made by the earthworms provide easy passage to air and water into the soil.	
a) B, C and D	
○ b) C, D and A ✓	
C) A and C only	
(iii) A, B and C ×	
37. 2. Vermicompost is a manure prepared?	2 / 2 pts Auto-graded
a) in factories	
(b) from plants	
c) from dead animals	
Ø d) by earthworms	
38. 3. Match the following:	2 / 2 pts Auto-graded
(a) Mixed fertilizer 1. DAP	
(b) Complex fertilizer 2. NPK	
(c) Biofertilizer 3. Oil Cake	
(d) Organic fertilizer 4. Algae	
a) (a) -1; (b) -2; (c) -3; (d) -4	
(a) b) (a) − 2; (b) − 1; (c) − 4; (d) − 3	
C) (a) -3; (b) -2; (c) -1; (d) -4	
(d) (a) -4; (b) -3; (c) -2; (d) -1	
39. 4.In order to get more yield from his fields, a farmer is growing paddy crops over and over again using excess of fertilizer and pesticides. This practice will make the soil of his fields	2 / 2 pts Auto-graded
a) more useful for paddy crops only	
b) fertile for other crops also	
c) fit for ploughing and sowing seeds	
d) ultimately unfit for growing any crop	
40. 5. Is there any biological biocomposting method for waste degradation other than vermicomposting?	0 /2 pts
○ Yes ✓	Auto-graded
No X	

41.	6. Which epigenic earthworm species has high ability to tolerate environmental conditions like temperature, pH and moisture contents?	Auto-graded
	(i) a) Eisenia fetida √	
	b) Perionix excavatus	
	C) Lumbricus terrestris	
	d) Amynthas mekongianus	
42.	7. During vermicomposting why is the pH of the substrate decreasing towards neutral pH?	2 / 2 pts Auto-graded
	a) Due to addition of water	
	b) Due to addition of earthworms	
	 c) Production of carbon dioxide and organic acids by microbial metabolism during decomposition 	
	d) Because of decrease in organic matter	
43.	8. Why vermicompost contains more NPK than Farm yard manure?	2 / 2 pts Auto-graded
	 a) N in FYM is lost during preparation and storage mainly as NH3 volatilisation and or NO3 leaching. 	
	b) Vermicompost is made from organic waste alone	
	c) Farm yard manure is directly used on plants	
	d) Vermicompost contains earthworms also.	
44.	9. To which division does Mushroom belong?	2 /2 pts
	(a) Basidiomycetes ✓	Auto-graded
	b) Pteridophyta	
	c) Thallophyta	
	d) Mollusca	
702		2 /2 pts
45.	10. Mycellium produces white or colored umbrella shaped fruiting bodies called	Auto-graded
	a) Haphae	
	(a) b) Basidiocarp ✓	
	C) Annalus	
	O d) Seta	
46.	11. What is a symptom of mushroom poisoning?	2 /2 pts Auto-graded
	a) Mild nausea	
	(b) Vomiting	
	O c) Diarrhea	
	A AN ANT AN	

/2 pts Auto-graded

47	12	Mushroom	Farm	Lavout	require

- a) Composting unit
- (b) Prewetting area
- (a) Both
- d) None of these
- 48. 13. Spawn is the _____ of Mushroom
 - a) Spores
 - b) Mycellium ★
 - O c) Fruit
 - O d) Both a and b 🗸
- 49. 14. Alternative name of Agaricus is
 - a) Button mushroom 🗸
 - b) Paddy straw mushroom
 - c) Oyster mushroom X
 - d) Dhingri mushroom
- 50. 15. Mushrooms are good source of
 - a) Carbohydrates
 - b) Protein
 - O c) Fats
 - d) Vitamins

/2 pts Auto-graded

/2 pts Auto-graded

/2 pts Auto-graded

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INTERNA ACCESSMENT TEST



Value Added Course Assessment Test

45

Responses

19

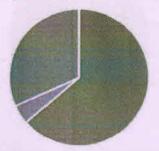
Average Score

Active

1. Which of the following is a commonly used earthworm species for the vermicomposting process? (1 point)

32% of respondents (14 of 44) answered this question correctly.

- Eisenia fetida
- 28
- Perionix excavatus
- 2
- Both (a) and (b)
- None of the above
- 0



2. The highly decomposed organic matter rich in minerals like nitrogen, phosphorus, and potassium, in particular, produced from the activity of earthworms is called ____ (1 point) 93% of respondents (42 of 45) answered this question correctly.

Humus

- Vermicompost
- Worm casting

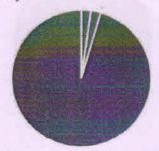
- Compost bedding

3. Vermicompost is used as a biofertilizer because it is rich in__ 95% of respondents (42 of 44) answered this question correctly.

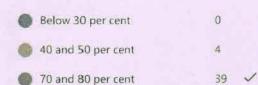
Calcium

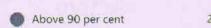
Nitrogen

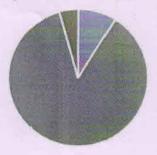
- Phosphorus
- All of the above
- 42



4. The moisture level required for vermicomposting should be between _____. (1 point) 87% of respondents (39 of 45) answered this question correctly.

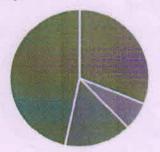






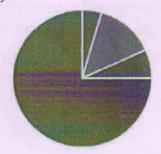
5. Why do you need to weigh your worms before putting them in your compost bin? (1 point) 31% of respondents (14 of 45) answered this question correctly.

to know how much to feed th... 14
to know how many there are 3
to see how much weight they ... 7
to know what will be the end ... 21



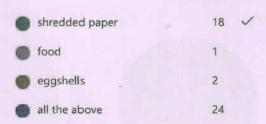
6. What type of bin is best for vermicomposting? (1 point)
7% of respondents (3 of 44) answered this question correctly.

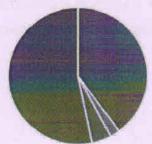




7. What among the following will be best suited for the bedding of a vermicomposting bin? (1 point)

40% of respondents (18 of 45) answered this question correctly.

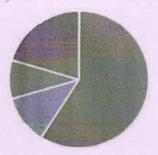




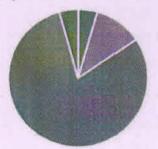
8. What does it mean if your compost bin begins to smell? (1 point)

11% of respondents (5 of 44) answered this question correctly.

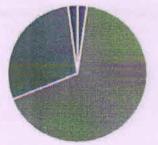
- You have too much bedding a... 26
- You are feeding the worms to... 5
- You have too many worms in t... 4
- You do not have enough feed ... 9



- 9. Which of the following is not a major objective of Vermicomposting? (1 point) 80% of respondents (36 of 45) answered this question correctly.
 - To elevate the value of origina... 2
 - To accelerate the rate of degra... 5
 - To obtain toxic products 36 ~
 - To obtain products free of any... 2



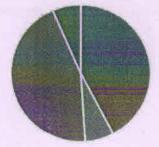
- 10. The process of covering spawned compost with a suitable material is known as (1 point) 67% of respondents (30 of 45) answered this question correctly.
 - cropping
 - casing
 - spawning 13
 - composting



- 11. There are three main methods of Large scale vermicomposting. Among three which method eliminates the need to separate worms from the casting before packaging? (1 point) 44% of respondents (20 of 45) answered this question correctly.
 - Windrow system
- 19

30

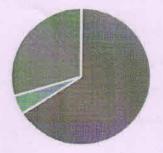
- Raised bed system
- 3
- Flow-through system
- 20
- None of the above
- 3



12. What is the optimum C/N ratio of vermicompost? (1 point)

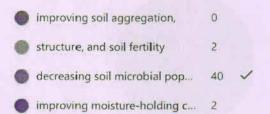
66% of respondents (29 of 44) answered this question correctly.

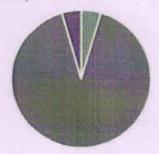




13. All are true with respect to vermicomposting except (1 point)

91% of respondents (40 of 44) answered this question correctly.

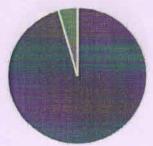




14. The vermitechnology provides vermicompost which is organic fertilizer and as natural manure for crops and gardens (1 point)

96% of respondents (43 of 45) answered this question correctly.

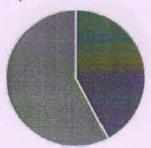




15. If oxygen levels are high, anaerobic processes will take over and cause chemical reactions and strong odors that will stress or kill the worms (1 point)

58% of respondents (26 of 45) answered this question correctly.

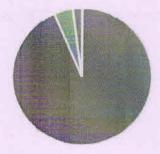




16. What is the botanical name of oyster mushroom? (1 point)

93% of respondents (42 of 45) answered this question correctly.

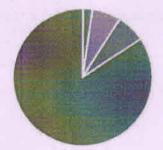
Pleurotus ostreatus
Agaricus bisporus
Lentinus edodes
Pleurotus eryngii
0



17. What is the ambient temperature to cultivate button mushroom? (1 point)

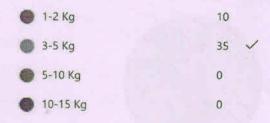
7% of respondents (3 of 45) answered this question correctly.

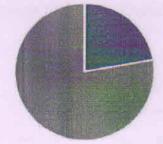
● 40- 45oC	1
35 - 40oC	3
● 5 - 15oC	3 🗸
20-350C	38



18. What is the average weight of a mushroom bed with four layer of spawn? (1 point)

78% of respondents (35 of 45) answered this question correctly.

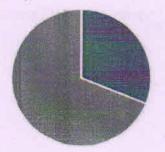




19. What is the carrier material widely used for spawn production? (1 point)

31% of respondents (14 of 45) answered this question correctly.

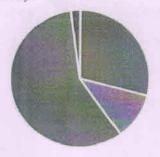
0	White sorghum	14	~
0	Wheat	31	
0	Rice	0	
0	Beans	0	



20. How many days an oyster mushroom will take to produce first yield during winter session? (1 point)

58% of respondents (26 of 45) answered this question correctly.

- 5 Days
 10 Days
 15 Days
 26
- 30 Days 1



21. Which of the following is required to sterilize rice straw? (1 point)

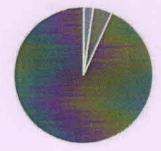
80% of respondents (35 of 44) answered this question correctly.

Ethanol
Formaldehyde
Phenol
Dettol
35 ✓
4

22. What is the purpose of making holes in mushroom bed? (1 point)

93% of respondents (42 of 45) answered this question correctly.

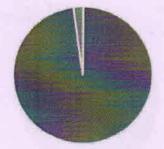
- to release heat 0
- to provide air circulation 1
- to make buds to come out 2
- all of the above 42 🗸



23. Mushroom is rich in protein (1 point)

98% of respondents (43 of 44) answered this question correctly.

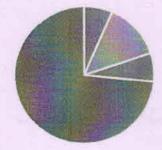
- True 43
 - False



24. Which of the following is not a part of mushroom? (1 point)

73% of respondents (33 of 45) answered this question correctly.

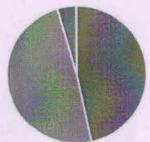
Pilus 3
 Stipe 6
 Annulus 3
 Stigma 33 ✓



25. Whish of the following type of mushroom is widely cultivated? (1 point)

47% of respondents (21 of 45) answered this question correctly.

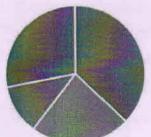
White button mushroom
Oyster mushroom
Paddy straw mushroom
Milky mushroom
0



26. Mycelium embedded in gills are called as (1 point)

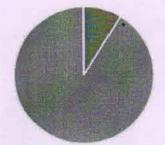
37% of respondents (16 of 43) answered this question correctly.

Stromma
Pilus
Stipe
Annulus
16 ✓
5
12



27. What is the common size of plastic bag used to make mushroom bed? (1 point) 91% of respondents (41 of 45) answered this question correctly.

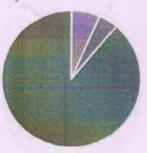
6 x 12 inches
 12 x 24 inches
 3 x 6 inches
 3 x 24 inches



28. Where is National Research Centre for Mushroom located? (1 point)

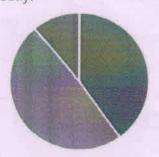
89% of respondents (40 of 45) answered this question correctly.

Tamilnadu 0 Kerala Delhi Himachal Pradesh 40



29. What will be the ratio of mushroom weight before and after drying process? (1 point) 49% of respondents (22 of 45) answered this question correctly.

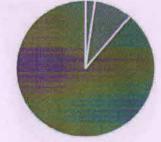
1:5 18



30. How to seed mushroom spawn in a bed? (1 point)

89% of respondents (40 of 45) answered this question correctly.

- Middle of the bed as single la...
- Bottom of the bed as single la...
- Top of the bed as single layer
- Multiple layers from bottom t...





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Industry Certified Value Added Programme

MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022

Department: Year:

Biotechnology 2021-22

Regulation:

R2020

Semester:

Even

MARK STATEMENT						
S.No.	Roll Number	Reg Number	Student Name	Internal Marks	External Marks	Final Marks
			Marks	40	60	100
1	20UBT001	920420UBT001	SRIDIVYA.R	36	51	87
2	20UBT002	920420UBT002	SUDHARSAN.M	25	39	64
3	20UBT003	920420UBT003	JEFFRY DANIEL.D	28	44	72
4	20UBT004	920420UBT004	GIRITHARAN.S	31	48	79
5	20UBT005	920420UBT005	SIVA SANKARI.K	31	49	80
6	20UBT006	920420UBT006	THILSATH MEERAL.S	33	44	77
7	20UBT007	920420UBT007	GOBIKA.G	29	42	71
8	20UBT008	920420UBT008	FAHEEMA THAHASEEN.A	34	38	72
9	20UBT009	920420UBT009	SANDOSHMANI.R	29	46	75
10	20UBT010	920420UBT010	RAVINA.R	31	39	70
11	20UBT011	920420UBT011	MOULI MONISHA.V	35	42	77
12	20UBT012	920420UBT012	ARAVIND.R	29	42	71
13	20UBT013	920420UBT013	AKASH DEV.M.S	30	38	68
14	20UBT014	920420UBT014	KEERTHI VASAN.V	29	44	73
15	20UBT015	920420UBT015	DINESH.R	38	43	81
16	20UBT017	920420UBT017	JASMINE KILDA.L	33	50	83
17	20UBT018	920420UBT018	MADHUMITHA.K	35	48	83
18	20UBT019	920420UBT019	DEEJITH NAATIYAAL.M.S	30	43	73
19	20UBT020	920420UBT020	KAMALI.S	34	50	84
20	20UBT021	920420UBT021	SINDHUJA.S	32	39	71
21	20UBT022	920420UBT022	NITHYASREE.A	29	40	69
22	20UBT023	920420UBT023	VARSHINIRAJI.P	32	41	73
23	20UBT024	920420UBT024	ABINAYA.J	34	52	86
24	20UBT025	920420UBT025	SAIBHAVADHARANI.B	36	49	85
25	20UBT026	920420UBT026	GOKULNATH.S	32	44	76
26	20UBT027	920420UBT027	SUBHIKSHA.S	34	52	86
27	20UBT028	920420UBT028	VARSHA.G.V	29	46	75
28	20UBT029	920420UBT029	RINISHA.R	26	42	68
29	20UBT030	920420UBT030	NARASINGAM.R	24	37	61
30	20UBT031	920420UBT031	JOHN PAUL HUDSON.S	30	43	73
31	20UBT032	920420UBT032	JEGADEESH.M	30	44	74



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Industry Certified Value Added Programme

MUSHROOM CULTIVATION AND VERMICOMPOSTING

22/02/2022 to 26/02/2022

Department: Year:

Biotechnology

2021-22

Regulation:

R2020

Semester:

Even

MARK STATEMENT

S.No.	Roll Number	Reg Number	Student Name	Internal Marks	External Marks	Final Marks
22	20UBT033	920420UBT033	VAIRAMUTHU.P	31	42	73
32	20UBT034	920420UBT034	VAISHAALI.A.M	34	22	56
33	20UBT035	920420UBT035	YOGASRI.M	33	51	84
34	20UBT036	920420UBT036	BOOJITHA.E	29	35	64
35	20UBT037	920420UBT037	LAMIYA BANU.M	26	40	66
36	20UBT037	920420UBT038	VARSHA.E	26	34	60
37	20UBT039	920420UBT039	SAKTHI SUREGA.P	30	38	68
38	20UBT039	920420UBT041	MINUSHA.S	30	44	74
39	20UBT041	920420UBT042	VINODHINI.R	29	49	78
40	20UBT042 20UBT043	920420UBT043	CERLICLADIYA.P	33	50	83
41	20UBT043	920420UBT044	SHANKAR GANESH.M.V	31	45	76
42	20UBT044 20UBT045	920420UBT045	HARSINI.S	28	39	67
43	20UBT045	920420UBT046	The second state of the se	32	43	75
44	20UBT049	920420UBT049		34	52	86

VAC Coordinators

Dr K.Geetha

Dr S.Karthikumar

Dr R.Shyam Kumar

Dr R.Shyam Kumar

Dean (Academic Courses)



On MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022 artment: Biotechnology

Department:

Regulation:

R2020

Year:

2021-22

Semester:

Even

GRADE SHEET

S.No.	Roll Number	Student Name	Mini project	Presentation	Test	Internal Marks	External Marks	Total Mark
		Marks alloted	10	10	20	40	60	100
1	20UBT001	SRIDIVYA.R	10	10	16	36	51	87
2	20UBT002	SUDHARSAN.M	10	7	8	25	39	64
3	20UBT003	JEFFRY DANIEL.D	10	8	10	28	44	72
4	20UBT004	GIRITHARAN.S	10	8	13	31	48	79
5	20UBT005	SIVA SANKARI.K	10	7	14	31	49	80
6	20UBT006	THILSATH MEERAL.S	10	8	15	33	44	77
7	20UBT007	GOBIKA.G	10	8	11	29	42	71
8	20UBT008	FAHEEMA THAHASEEN.A	10	9	15	34	38	72
9	20UBT009	SANDOSHMANI.R	10	7	12	29	46	75
10	20UBT010	RAVINA.R	10	9	12	31	39	70
11	20UBT011	MOULI MONISHA.V	10	9	16	35	42	77
12	20UBT012	ARAVIND.R	10	8	11	29	42	71
13	20UBT013	AKASH DEV.M.S	10	8	12	30	38	68
14	20UBT014	KEERTHI VASAN.V	10	8	11	29	44	73
15	20UBT015	DINESH.R	10	9	19	38	43	81
16	20UBT017	JASMINE KILDA.L	10	7	16	33	50	83
17	20UBT018	MADHUMITHA.K	10	8	17	35	48	83
18	20UBT019	DEEJITH NAATIYAAL.M.S	10	9	11	30	43	73
19	20UBT020	KAMALI.S	10	8	16	34	50	84
20	20UBT021	SINDHUJA.S	10	9	13	32	39	71
21	20UBT022	NITHYASREE.A	10	8	11	29	40	69
22	20UBT023	VARSHINIRAJI.P	10	9	13	32	41	73
23	20UBT024	ABINAYA.J	10	8	16	34	52	86
24	20UBT025	SAIBHAVADHARANI.B	10	9	17	36	49	85
25	20UBT026	GOKULNATH.S	10	9	13	32	44	76
26	20UBT027	SUBHIKSHA.S	10	7	17	34	52	86
27	20UBT028	VARSHA.G.V	10	8	11	29	46	75
28	20UBT029	RINISHA.R	10	7	9	26	42	68
29	20UBT030	NARASINGAM.R	10	7	7	24	37	61
30	20UBT031	JOHN PAUL HUDSON.S	10	8	12	30	43	73
31	20UBT032	JEGADEESH.M	10	8	12_	30	44	74
32	20UBT033	VAIRAMUTHU.P	10	8	13	31	42	73
33	20UBT034	VAISHAALI.A.M	10	8	16	34	22	56
34	20UBT035	YOGASRI.M	10	8	15	33	51	84
35	20UBT036	воолтна.Е	10	8	11	29	35	64
36	20UBT037	LAMIYA BANU.M	10	7	9	26	40	66



Industry Certified Value Added Programme

On MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022

	Department:	Biotechnology		Regulation:	R2020			
	Year:	2021-22		Semester:	Even			
37	20UBT038	VARSHA.E	10	6	10	26	34	60
38	20UBT039	SAKTHI SUREGA.P	10	9	11	30	38	68
39	20UBT041	MINUSHA.S	10	9	11	30	44	74
40	20UBT042	VINODHINI.R	10	8	11	29	49	78
41	20UBT043	CERLICLADIYA.P	10	8	15	33	50	83
42	20UBT044	SHANKAR GANESH.M.V	10	9	12	31	45	76
43	20UBT045	HARSINI.S	10	7	11	28	39	67
44	20UBT046	PRASANNA VENGATESH.V	10	8	14	32	43	75
45	20UBT049	NITHYASHREE.S.R	10	9	15	34	52	86

VAC Coordinators
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Dr R.Shyam Kumar

Dr R.Shyam Kumar



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DEPARTMENT OF BIOTECHNOLOGY Industry Certified Value Added Programme

On

MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022

FEEDBACK FORM

	oll No:
	inte:
A.	FEEDBACK ON GENERAL ASPECTS OF VALUE ADDED PROGRAMME:
1.	The programme provided an insight to apply the knowledge gained for development of a small scale industry ななななな
2.	The programme provided an insight to identify and analyze simple solutions for industrial applications
	ት
3.	The programme provided an insight to design solutions for environmental problems
	<u> </u>
4.	The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures.
	<u> </u>
5.	The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software.
	ት ት
6.	The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings.
	ት ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ
7.	The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

B. FEEDBACK ON SESSIONS:

8. Rate the course module and content of the Value added programme.

公公公公公

9. Rate the infrastructure facilities provided to conduct the programme.

수수수수수

10. The allotted time to complete the task given during the programme was sufficient.
11. Rate the Theory sessions handled for Vermicomposting and Mushroom cultivation by Internal Resources.
12. Rate the basic Hands-on sessions handled for Vermicomposting and Mushroom cultivation by Internal Resources.
ት ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ
13. Rate the Industrial training on Vermicomposting at JP Sustainable Foundation, Kulloorsandai, Virudhunagar.
ል ተተ
14. Rate the Industrial training on Mushroom cultivation by Mr R.Vijayakumar, Vcare Agro Tech Mushroom Farm, Mushroom Cultivation training centre, Madurai.
ት ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ
15. Overall how will you rate the Value added programme.
አ ተተ ተ
C. SUGGESTIONS FOR IMPROVEMENT:
16. Write any two best features of the Value added programme.
17. Write any two features that can be improved in the Value added programme.
18. Please give your valuable suggestions for the improvement of the programme.



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DEPARTMENT OF BIOTECHNOLOGY Industry Certified Value Added Programme

MUSHROOM CULTIVATION AND VERMICOMPOSTING 22/02/2022 to 26/02/2022

PRE- & POST- ASSESSMENT ANALYSIS REPORT

Total number of students: 45

SI No	Questions	Pre- assessment	Post- assessment
140		Averag	e Rating
1	I am familiar with the concept of Mushroom cultivation.	3.02	4.74
2	I can differentiate between various techniques used for seed preparation for mushroom cultivation.	2.42	4.56
3	I can prepare mushroom cultivation beds	2.47	4.86
4	I am clear with the different methods used for cultivation of different types of mushrooms.	2.31	4.63
5	I am aware of the process involved in harvesting and storage of mushrooms.	2.51	4.72
6	I am aware of the role of mushroom cultivation in small scale industry.	2.38	4.79
7	I know the importance of Vermicomposting.	3.38	4.65
8	I understand the principle behind vermicomposting technique.	2.49	4.58
9	I am aware of important types of vermicompost bed preparation.	2.22	4.67
10	I am aware of the advantages of vermicompost over chemical fertilizers.	3.00	4.70
11	I can explain the design and process of vermicomposting techniques.	2.00	4.49
12	I can design a small scale vermicompost production unit.	2.07	4.53

Pre-Assessment Survey: **EXPECTATIONS**

Q 13: MY EXPECTATIONS FROM THIS VALUE ADDED PROGRAMME ARE: RESPONSES FROM STUDENTS (Write atleast 2 points):

More about mushroom cultivation and vermicomposting

To know the importance of mushroom cultivation and vermicompost and develop my skills

Two grasp exact concepts behind the course. To grow my skills in this field so that I can spread my thoughts to income

I expect that I will able to do this cultivation process by my own after completing this course.

To get a hand done experience with full knowledge in the techniques.

To Learn more about important of vermicomposting and mushroom cultivation

Improve my industrial skills

To learn the detailed process of Vermicomposting and mushroom cultivation

To learn about vermicompost and mushroom cultivation clearly

Learn more about the biofarms ans their uses

Opportunity to students to develop their skills

To study more about mushrooms cultivation and vermicomposting

Learning techniques and importance of these skills

I want to learn techniques behind the mushroom cultivation and vermicomposting.

Explore new things

I expect to learn a lot from this programme

To enhance the knowledge from the subject of farming

To known the process of vermicomposting and mushrooms cultivation clearly.

Learn more about mushroom cultivation and vermicomposting and get a clear idea about their applications in industries

I want to explore more in terms of industrial and business perspective.

I want to learn more information for this program.

To learn the detailed process of mushroom cultivation and vermicompositing

I would like to improve my skills through this value added program, Helps me improve my entrepreneurship, Might help me in exploring all techniques

To gain good knowledge about vermicomposting and mushroom cultivation and to use the techniques if I had any chance and idea to be a entrepreneur.

Opportunity to students the develop the skil.

To gain knowledge about mushroom cultivation and to get an hand on experience in mushroom cultivation and vermicomposting technique

I am interested in learning of this mushroom cultivation and vermicomposting

To know the process of vermicomposting and mushroom cultivation

More ideas and experience from the topic

To learn the detail process of vermicompost

learn about vermicompost and aware of mushroom cultivation

★To be able to perform the vermicomposting and mushroom cultivation on my own. ★To know the various new facilities in vermicomposting techniques that is to perform cloning of earthworms.

To learn the technique behind vermicompost and mushroom cultivation

I will get good hands-on experience by preparing mushroom cultivation and vermicomposting I will practice this at home.

To develop and improve skills.

It is very important to know mushroom cultivation and vermicomposting . It gives some idea about industry scale production

I can learn manythings in this course, I think it is useful to my Carrier

1.I can learn many things 2.It's useful to us to do many experiment

To learn about vermicompost and mush room cultivation with full satisfaction

I expect that I will learn how to cultivate mushroom and vermi compost technology

To get to know about the methods and principles of Mushroom cultivation and Vermicomposting

To learn the methods of mushroom cultivation and vermicomposting clearly so that I would be able to do it on my own

To learn the importance of techniques behind the Vermicompost and Mushroom Cultivation

Post-Assessment Survey: <u>OUTCOMES</u>

Q 13: MY LEARNINGS FROM THIS VALUE ADDED PROGRAMME ARE (Write atleast 2 points):

RESPONSES FROM STUDENTS

It was a great experience

I've learnt so much by this time of program

It was a great experience and I learn about mushroom cultivation

I have learned new things!

Elegeble to start a small scale industry

I learnt a lot about these two techniques. And these techniques make to think in a different manner. Thank you so much for this value added course.

This gives a new ideas to start a business with the basic knowledge about the field . I can now start a business if I really need to be an entrepreneur there is no doubt about that

It was a nice experience

I learnt how to produce and maintain the vermicompost and mushroom and very useful program

Now I am able do mushroom cultivation on own. I clear with the concept of mushroom cultivation

It is a very nice session and we learnt so many things about vermicompost and mushroom cultivation. particularly mushroom cultivation is very useful and very intersting.

I learned many new technique, process and advantage of this topic... Both the topic are very interesting... Thank you so much for this wonderful session

To provide an opportunity to students to develop inter-disciplinary skills.

Can do vermicompost bed and mushroom bed

I have developed entrepreneurship, I have obtained skills and techniques of vermicomposting and mushroom cultivation, I wanted to explore the different techniques involved in these programs. It is very very useful we learnt more about vermicomposting and about the mushroom cultivation other than the topic we learnt about the entrepreneurs and we learnt the process we do for business Thank you so much for giving this experience

From this value added programme I learnt the importance and advantages of mushroom cultivation, vermi composting. I am inspired by the resources person who shared lot of his experience regarding mushroom cultivation business. Gratefully I will be able to achieve higher in this business.

It was very amazing week of value added program. It was very lively and very clear and whole understandable about basic methods which yields higher outcome.

So now i can fullfilly step into the vermicomposting and mushrooms cultivation businesses.from

this value added course i have learned all technics involved in vermicomposting and mushrooms cultivation.

I came to know more about mushroom cultivation and vermi composting...and I like to try it out.

It gives a complete idea of vermicomposting and mushroom cultivation

I thank our management to give a clear idea about mushroom cultivation and vermicomposting. I confidence to keep a mushroom industry cultivation. I learn many things how to prepare mushroom beds and vermicomposting. Thanks for giving a wonderful idea to shine our future.

Very informative and useful. We can become a new entrepreneur

The program is very effective and I learned the various techniques used in mushroom cultivation and vermicomposting .I also learned about the difference between theoretical method and practical applications

I got to learn the experience of veteran entrepreneur of their respective field ,got insigts about socitially level applications in mushroom cultivation and vermicomposting.

Program learning outcomes are the skills, competencies, and "big ideas"

It is very useful for me

I learned a clear harvesting process of vermicomposting and mushroom culture

I am clear with the concept of vermicomposting and mushroom cultivation, it's importance and the profit behind the business

It's useful for my studies. I learned more information for this program

We come to know many information about vermicompositing and mushroom cultivation

Only book is not other than that many things are there to learn.

I am much more confident on methods and techniques of mushroom cultivation and vermicomposting. The program was very useful and informative. Doing these techniques Practically was very helpful.

From this training I have learned a complete package of vermicomposting and mushroom cultivation. I have learned how to create a bed for mushroom cultivation

Learning about mushroom cultivation and doing it practically has given me an encouragement to start this mushroom cultivation at home at a small scale level and I am even planning on starting my own mushroom farm some day

I have had an opportunity in hands on experience with vermicomposting and mushroom cultivation. It is really motivational. It really helps to start up a own company, and this program inspired me a lot.

It is very usefull for our future

I learn the different type of worms. And how to help this worms in vermicomposting. I learn prepare the bed(mushroom)

We can even cultivate mushrooms at our homes in a small area, mushrooms are rich in proteins. The problems that an entrepreneur faces in the field of vermicomposting and the process of making beds for vermicomposting.

ogramme Coordinators

Forms(https://www.office.com/launch/forms?auth=2&from=FormsDomain)



e-Assessment Survey:Industry Certified VAP on "Mushroom" Cultivation and Vermicomposting

Responses

04:14

Average time to complete

Active

Status

1. Roll Number

45

Responses

Latest Responses

"20UBT014"

"20UBT008 "

"20UBT003"

1 respondents (2%) answered 20UBT036 for this question.

20ubt02920UBT033

20ubt001

20ubt046 20UBT049 20ubt023

20UBT012

20ubt007 20UBT036 20ubt020 20UBT017 20UBT015 20UBT028 20ubt043

20UBT03420ubt011

20ubt044

20UBT024

2. Name

45

Responses

Latest Responses "Keerthi Vasan.V" "A. FAHEEMA THAHASEEN "D. Jeffry Daniel"

2 respondents (4%) answered R for this question.

B Saibhavadharani Keerthi VasanV

Shankar ganesh

R Vinodhini R Dinesh R RINISHA A Nithyasree

Paul L Jasmine kilda S Kamali R M S Deejith Naatiyaal

P Cerli

D Jeffry DanielS Subhiksha

SAKTHI SUREGA MLAMIYA BANU

A FAHEEMA THAHASEEN

John Sthilsath meeral

3. Date

45

Responses

Latest Responses

"11/22/2022"

"2/22/2022"

"2/22/2022"

4. 1) I am familiar with the concept of Mushroom cultivation.

45

Responses

3.02 Average Rating

5. 2) I can differentiate between various techniques used for seed preparation for mushroom cultivation.

45

Responses

2.42 Average Rating

3) I can prepare mushroom cultivation beds

45

Responses



2.47 Average Rating

7. 4) I am clear with the different methods used for cultivation of different types of mushrooms.

45

Responses



2.31 Average Rating

8. 5) I am aware of the process involved in harvesting and storage of mushrooms.

45

Responses



2.51 Average Rating

9. 6) I am aware of the role of mushroom cultivation in small scale industry.

45

Responses

2.38 Average Rating

10. 7) I know the importance of Vermicomposting.

45

Responses

3.38 Average Rating

11. 8) I understand the principle behind vermicomposting technique.

45

Responses

2.49 Average Rating

12. 9) I am aware of important types of vermicompost bed preparation.

45

Responses



2.22 Average Rating

13. 10) I am aware of the advantages of vermicompost over chemical fertilizers.

45

Responses



3.00 Average Rating

14. 11) I can explain the design and process of vermicomposting techniques.

45

Responses



2.00 Average Rating

15. 12) I can design a small scale vermicompost production unit.

45

Responses

2.07 Average Rating



13) MY EXPECTATIONS FROM THIS VALUE ADDED PROGRAMME ARE: (Give atleast two points)

43

Responses

Latest Responses

"To learn the importance of techniques behind the Vermicompost and ...

"To learn the methods of mushroom cultivation and vermicomposting ...

"To get to know about the methods and principles of Mushroom cultiv...

22 respondents (49%) answered mushroom cultivation for this question.

cultivation and vermicomposting

vermicomposting and mushroom course

technique behind vermicompost

idea hand done experience

process of vermicompost mushroom cultivation

detailed process cultivation process

room cultivation

knowledge

vermicompost

techniques

mushroom and vermi

process of vermicomposting

vermicomposting clearly important of vermicomposting

techniques and importance

Programme Coordinator

Forms(https://www.office.com/launch/forms?auth=2&from=FormsDomain)



st-Assessment Survey:Industry Certified VAP on "Mushroom Cultivation & Vermicomposting

43

Responses

03:44

Average time to complete

Active

Status

1. Roll Number

43

Responses

Latest Responses

"20ubt046"

"20ubt001"

"20UBT033"

1 respondents (2%) answered 20UBT013 for this question.

20UBT034 20ubt011

20ubt044

20UBT049

20UBT036 20UBT030

20ubt007^{20UBT024}
20UBT028²⁰ubt043^{20UBT013}

20UBT012 20ubt037

20ubt014 20UBT017 20ubt020

20UBT005

20UBT008

20UBT038

20ubt029

2. Name

43

Responses

Latest Responses "V. PRASANNA VENGATESH

"Sridivya.R"

"VAIRAMUTHU.P"

2 respondents (5%) answered R for this question.

shankar ganesh

Sakthi Surega

B Saibhavadharani

S SubhikshaD Jeffry Daniel R Vinodhini A Nithyasree

RSanthosh mani L Jasmine Kilda R M S Deejith Naatiyaal

P Cerli

S Kamali SANKARIR RINISHA

A FAHEEMA THAHASEEN

Sthilsath meeral SIVA VKeerthi Vasan

3. Date

43

Responses

Latest Responses

"2/27/2022"

"2/26/2022"

"2/27/2022"

4. 1) I am familiar with the concept of Mushroom cultivation.

43

Responses

4.74 Average Rating

5. 2) I can differentiate between various techniques used for seed preparation for mushroom

43

Responses

4.56 Average Rating

6. 3) I can prepare mushroom cultivation beds

43

Responses



7. 4) I am clear with the different methods used for cultivation of different types of mushrooms.

43

Responses



4.63 Average Rating

8. 5) I am aware of the process involved in harvesting and storage of mushrooms.

43

Responses



4.72 Average Rating

9. 6) I am aware of the role of mushroom cultivation in small scale industry.

43

Responses



4.79 Average Rating

10. 7) I know the importance of Vermicomposting.

43

Responses



4.65 Average Rating

11. 8) I understand the principle behind vermicomposting technique.

43

Responses



4.58 Average Rating

12. 9) I am aware of important types of vermicompost bed preparation.

Responses



4.67 Average Rating

13. 10) I am aware of the advantages of vermicompost over chemical fertilizers.

43

Responses



4.70 Average Rating

14. 11) I can explain the design and process of vermicomposting techniques.

Responses



4.49 Average Rating

15. 12) I can design a small scale vermicompost production unit.

43

Responses



4.53 Average Rating

13) LEARNING OUTCOMES FROM THIS VALUE ADDED PROGRAMME ARE: (Give atleast two points)

Latest Responses

40

Responses

"We can even cultivate mushrooms at our homes in a small area, mush...

"I learn the different type of worms. And how to help this worms in ver...

19 respondents (44%) answered learned for this question.

cultivation and vermibeds and vermicomposting

mushroom and very useful

cultivation is very useful

cultivation vermicomposting and mushroom vermicompost and mushroom

mushroom farm mushroom bed mushroom industry techniques

learned program mushrooms at our homes bed and mushroom mushroom culture

cultivation and vermicomposting cultivation business mushrooms are rich

mushroom cultivation

Bug vam de Coordinator

TIMES HODIRS

Forms(https://www.office.com/launch/forms?auth=2&from=FormsDomain)



EEDBACK FORM: Industry Certified VAP on "Mushroom Cultivation and Vermicomposting 2021-22

42

Responses

06:47

Average time to complete

Active

Status

1. Roll Number

Responses

Latest Responses

"20UBT017"

"20UBT049"

"20ubt020"

1 respondents (2%) answered 20UBT013 for this question.

20UBT028

20ubt001 20ubt046

20ubt03720UBT008 20UBT01320ubt011 20ubt038

20UBT015 20ubt023 20UBT036

20UBT005

20ubt014

20ubt00720UBT012

20ubt029

20ubt043

2. Name

42

Responses

Latest Responses "L. Jasmine kilda" "NITHYASHREE S R "

"S. Kamali"

2 respondents (5%) answered R for this question.

Naatiyaal

M Lamiya banu S Kamali

S Subhiksha

B Saibhavadharani

Keerthi Vasan R Vinodhini

R RINISHASthilsath meeral R Dinesh RSanthosh mani

A FAHEEMA THAHASEEN

Hudson shankar ganesh SJohn

P Cerli Sakthi Surega

3. Date

42

Responses

Latest Responses

"3/2/2022"

"3/2/2022"

"3/2/2022"

The programme provided an insight to apply the knowledge gained for development of a small scale industry.

42

Responses

4.60 Average Rating

The programme provided an insight to identify and analyze simple solutions for industrial applications

42

Responses

4.48 Average Rating

6. 3. The programme provided an insight to design solutions for environmental problems

42

Responses



4.57 Average Rating

The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures

42

Responses



4.43 Average Rating

The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software

42

Responses



4.50 Average Rating

The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings

Responses



4.52 Average Rating

The programme provided an insight to recognize the need for, and have the preparation 10. 7. and ability to engage in independent and life-long learning in the broadest context of technological change.

Responses



4.48 Average Rating

Rate the course module and content of the Value added programme.

42

Responses



4.69 Average Rating

Rate the infrastructure facilities provided to conduct the programme.

42

Responses



4.71 Average Rating

13. 10. The allotted time to complete the task given during the programme was sufficient

42

Responses



4.38 Average Rating

14. 11. Rate the Theory sessions handled for Vermicomposting and Mushroom cultivation by Internal Resources.

42

Responses

4.48 Average Rating

15. 12. Rate the basic Hands-on sessions handled for Vermicomposting and Mushroom cultivation by Internal Resources.

42

Responses



4.55 Average Rating

16. 13. Rate the Industrial training on Vermicomposting at JP Sustainable Foundation, Kulloorsandai, Virudhunagar.

42

Responses



4.62 Average Rating

17. 14. Rate the Industrial training on Mushroom cultivation by Mr R.Vijayakumar, Vcare Agro Tech Mushroom Farm, Mushroom Cultivation training centre, Madurai.

42

Responses



4.62 Average Rating

18. 15. Overall how will you rate the Value added programme.

42

Responses



4.74 Average Rating

19. 16. Write any two best features of the Value added programme.

Latest Responses

40

Responses

"Came Out fo the book and entered into reality and learned about Int...

"Great exposure for students in enterprenership and we got insights in ...

"Entered into reality to learn new method"

6 respondents (15%) answered mushroom cultivation for this question.

additional features process regarding vermicomposting

useful company Hands on training customers
Society knowledge

mushroom cultivation

program

entrepreneurship business knowledge technical applications

products and services

mushroom bed

cultivation and vermicomposting

20. 17. Write any two features that can be improved in the Value added programme.

39

Responses

Latest Responses

"Nothing"

"Hands on training days can be increased "

"Learned many new things and new techniques"

6 respondents (15%) answered mushroom cultivation for this question.

cultivation and vermi

cultivation industry

economic value

product

method

theory

different

good entrepreneur mushroom cultivation process cultivation place time

knowledge value customers skills and knowledge

added is effectively

extras with the product

practical knowledge

21. 18. Please give your valuable suggestions for the improvement of the programme.

39

Responses

Latest Responses

"Nothing all is good"

"Self activities can be given "

"It's really good and useful"

6 respondents (15%) answered program for this question.

need for improvement different types

Overall it was good

Duration of the program week

program was really good

Self activities related knowledge

organizational strategy no need

time for hand need program

good and improvement programme

Industrial visit Good

mushroom cultivation

Program was very knowledgeable

Programme coordinators

,	Respondent		01:27
		Anonymous	Time to complete
1. Ro	oll Number ³		
1118			
	20UBT013		
2. N	ame *		
	M.S.AKASH DE	v.	
	IVI.3.AKASH DE	V.	The sales of the same
4			
3. Da	ate *		
	2/26/2022		

Feedback on General aspects of Value Added Programme

4.1. The programme provided an insight to apply the knowledge gained for development of a small scale industry. *



5.2. The programme provided an insight to identify and analyze simple solutions for industrial applications *



6.3. The programme provided an insight to design solutions for environmental problems *



7.4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures *



8.5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software



9.6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings *



10.7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. *



Feedback on Sessions

Give fair feedback on each session.

Rate the course module and content of the Value added programme. * 11.8.



12.9. Rate the infrastructure facilities provided to conduct the programme. *



13. 10. The allotted time to complete the task given during the programme was sufficient *



14.11. Rate the Theory sessions handled for Vermicomposting and Mushroom cultivation by Internal Resources. *



* 15.12. Rate the basic Hands-on sessions handled for Vermicomposting and Mushroom cultivation by Internal Resources. *



16. 13. Rate the Industrial training on Vermicomposting at JP Sustainable Foundation, Kulloorsandai, Virudhunagar. *



17. 14. Rate the Industrial training on Mushroom cultivation by Mr R.Vijayakumar, Vcare Agro Tech Mushroom Farm, Mushroom Cultivation training centre, Madurai. *



18. 15. Overall how will you rate the Value added programme. *



Suggestions for Improvement

19. 16. Write any two best features of the Value added programme. *

We learnt other than a subject

20. 17. Write any two features that can be improved in the Value added programme. *

Nothing

21. 18. Please give your valuable suggestions for the improvement of the programme. *

Good

Programme Coordinator

T. MOD BT



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambera Nader - C.Nagammel Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF BIOTECHNOLOGY Industry Certified Value Added Programme On MUSHROOM CULTIVATION AND VERMICOMPOSTING

22/02/2022 to 26/02/2022

SUMMARY REPORT

A five days Industry Certified Value Added Programme entitled "Mushroom Cultivation and Vermicomposting" was organized by Department of Biotechnology, Kamaraj College of Engineering and Technology, Virudhunagar, in association with V - CARE AGRO TECH, Madurai and Jeypee Sustainability Foundation, Virudhunagar, from 22nd to 26th February 2022 for II B.Tech Biotechnology students. The major objective of this programme was to give an insight on Entrepreneurship to the students and to provide hands on training in Biofertilizer production and Mushroom cultivation so that students will be able to learn the basic aspects of Mushroom cultivation and vermi-composting. "Mushroom" is an application part of Microbiology and Industrial biotechnology course work the students have learnt. This VAP helped them to develop entrepreneurship focus on Mushroom based product development. Vermicomposting training taught them how to start a Biofertilizer unit.

Day 1 of the programme started with a short Inauguration session where our Head of the Department D R.Sham Kumar introduced the theme of the VAP. This was followed by two sessions on the basic Introduction Theory behind Vermicomposting by Dr K.Geetha, ASP/BT. The afternoon sessions were handled by Dr S.Karthikumar and Dr R.Shyam Kumar where they gave a demonstration on how to prepare vermin beds in small scale. The students practiced preparing dummy beds as a part of this session.

Day 2 started with an interesting session on Applications of Vermicomposting and Vermiwash by Dr R. Shyam Kumar who gave a detailed insight into various fields where Vermicompost and Vermiwash are being used successfully. This was followed by a session on Basic introduction and Theory behind Mushroom cultivation which was handled by Dr K.Geetha. The afternoon session of Day 2 was again a hands-on session on cultivation of pure culture for Mushroom cultivation process handled by Dr Karthikumar.

Day 3 was planned as an industrial visit to Jeypee Sustainability Foundation, Virudhunagar for a hands-on training on large scale production of Vermicomposting. The students were taken to the industry in college bus and they were accompanied by Dr R.Shyam Kumar and Dr S.Karthikumar along with out senior lab technician Mr. Jaykumar. The industrial training on vermicomposting was handled by Mr. R. Palaneeshwar, Director, who gave a handson training on Vermicomposting along with intermittent inspirational talk on Entrepreneurship. The students spent one whole day in the industry to learn how vermicomposting is carried out at large scale. They also learnt the business side of the process.

Day 4 and 5 were completely dedicated to Mushroom cultivation. Hands-on training was given by Mr. R. Vijay Kumar, VCare Agro Tech, Madurai. On 4th day the students were given training on pre-treatment of paddy straw for mushroom bed preparation followed by guest lecture on various aspects of Mushroom cultivation like growth, maintenance, production, marketing and sustainability. The 5th day was a complete hands-on session on mushroom bed preparation and inoculation of mushroom spores in various methods. Finally the day ended with a short Valedictory function where students gave oral feedback and also certificates were distributed to all students. Overall students had a complete knowledge filled 5 days of Value addition to their Biotechnology career.

Programme Coordinators

HoD/BT