Date: 10/12/2019

To,
The Principal
K. K. Wagh College of Agriculture,
Nashik

Subject Regarding permission for Certificate Course.....

Respected Sir,

On behalf of the Department of Plant Pathology, we humbly request permission to initiate a Certificate course titled **Biofertilizer Production Technology**. This course is scheduled from 15/12/2019 to 25/12/2019 and will involve approximately 39 Second -year students Especially for ELE EXTN 244. It is anticipated that this course will greatly benefit our students in enhancing their knowledge about advance techniques and practical skills in Production of Biofertilizer. We kindly ask for your approval for the implementation of this course.

Thanking You,

Yours faithfully,

permission granted

10/12

(Ms. S. K. Sonawane)
Course Coordinator

K. K. WAGH COLLEGE OF AGRICULTURE
NASHIK-3

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Certificate course in

Biofertilizer Production Technology

Academic Year 2019-20

Syllabus Committee

Sr no	Name of teacher	Designation	Department	Role in course
1	Ms. S. K. Sonawane	Assistant Professor	Plant Pathology	Course coordinator
2	Dr. H. V. Deshmukh	Assistant Professor	Plant Pathology	Committee member
3	Ms. N. B. Bhoknal	Assistant Professor	Plant Pathology	Committee member
4	Miss S.D. Kharat	Technical Assitant	Plant Pathology	Committee member

Course Coordinator

Principal

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Academic Year 2019-20
Department of Plant Pathology

Minutes of the Board of Studies Meeting for the Short-Term Certificate Course

A meeting of the Board of Studies for the Short-term Certificate Course in 'Biofertilizer Production Technology' was convened on 11/12/2019, at 12:00 PM in the Department of Plant Pathology. The meeting was attended by the following Syllabus Design Committee members:

Sr no	Name of teacher	Designation	Sign
1	Ms. S. K. Sonawane	Assistant Professor	
2	Dr. H. V. Deshmukh	Assistant Professor	
3	Ms. N. B. Bhoknal	Assistant Professor	
4	Miss S.D. Kharat	Technical Assitant	

Minutes of Meeting

The Board of Studies convened a meeting on 11/12/2019, at 12:00 PM in the Department of Plant Pathology to discuss various aspects concerning the Short-Term Certificate Course in 'Biofertilizer Production Technology'. The meeting focused on the following key points:

1. **Syllabus Formation:**
   Members deliberated on developing a comprehensive syllabus emphasizing relevant knowledge and skills in biofertilizer production. The curriculum will cover the types of biofertilizers, the microorganisms involved, production techniques, and quality control.
2. **Dissemination of Knowledge:**
   Strategies for effectively teaching the fundamentals of biofertilizers, including microbial culture techniques and formulation methods, were discussed to aid students in the course.
3. **Encouragement of Students:**
   The meeting stressed the importance of offering guidance and motivation to students. Students will gain practical experience in isolating and cultivating beneficial microorganisms, producing biofertilizers, and understanding their application in sustainable agriculture. The course aims to equip students with the skills needed for entrepreneurship in biofertilizer production.
4. **Examination of Short-Term Course:**
   The examination structure and assessment methods for the short-term course were reviewed. The board explored ways to ensure fair and comprehensive evaluations that accurately assess students' understanding and practical skills.

The meeting concluded with a commitment to refining the course and its delivery methods to better meet the needs of students enrolled in the Certificate Course in 'Biofertilizer Production Technology'.

Course Coordinator

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Department of Plant Pathology

Certificate Course in 'Biofertilizer Production Technology'
Academic Year 2019-20

Syllabus Outcomes:

1. Gain an understanding of the historical and current perspectives on biofertilizer production.
2. Learn various methods for the production and application of biofertilizers.
3. Acquire knowledge about different types of microorganisms used in biofertilizers and their roles in plant growth.
4. Understand the processes involved in the isolation, identification, and maintenance of beneficial microorganisms.
5. Explore the methods for the production of different types of biofertilizers, including nitrogen-fixing, phosphate-solubilizing, and mycorrhizal biofertilizers.
6. Examine the commercial aspects and economic benefits of biofertilizer production.

Sr no	Topic	Description	No of Lectures
1	**Introduction to Biofertilizers**	Study the history, types, and importance of biofertilizers in sustainable agriculture. Discuss the benefits of using biofertilizers over chemical fertilizers.	05 hours
2	**Microbial Diversity in Biofertilizers**	Understand the different types of microorganisms used in biofertilizers, including bacteria, fungi, and cyanobacteria. Learn about their roles in nutrient cycling and plant growth promotion.	05 hours
3	**Isolation and Culturing Techniques**	Methods for isolating and culturing beneficial microorganisms from soil and plant roots. Learn to maintain pure cultures for biofertilizer production.	05 hours
4	**Production of Nitrogen-Fixing Biofertilizers**	Techniques for the production of biofertilizers using nitrogen-fixing bacteria such as Rhizobium, Azospirillum, and Azotobacter.	05 hours
5	**Production of Phosphate-Solubilizing Biofertilizers**	Methods for the production of phosphate-solubilizing biofertilizers using bacteria and fungi. Study the mechanisms of phosphate solubilization and its benefits.	05 hours
6	**Quality Control and Commercialization**	Study the quality control measures, regulatory standards, and commercialization aspects of biofertilizers. Learn how to prepare a business plan and explore market opportunities.	05 hours
Total			**30 hours**

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Date: 11/12/2019

Student Notice

All Second -year B.Sc. (Hons.) Agriculture students are informed that the Certificate Course on 'Biofertilizer Production Technology' for the academic year 2019-20 will be conducted from 15/12/2019 to 25/12/2019. Interested students should submit their names to the Certificate Course Coordinator, Ms. S. K. Sonawane, by 13/12/2019.

Duration: 30 hours
Dates: 15/12/2019 to 25/12/2019
Time:

- **Morning Session:** 09:00 AM to 10:00 AM
- **Afternoon Session:** 05:00 PM to 06:00 PM

Note: This course is free of cost for all students.

Course Coordinator

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Department of Plant pathology
Certificate course in
'Biofertilizer Production Technology'
Academic Year 2019-20

Enrolled Student List

Sr. No.	Reg No.	Name of Student
1	AKN-2018/005	Ate Nikhil Amardeep
2	AKN-2018/006	Bachhav Prasad Dilip
3	AKN-2018/008	Bagal Avinash Ramdas
4	AKN-2018/017	Deokar Tejal Kishor
5	AKN-2018/018	Desai Siddhesh Deepak
6	AKN-2018/019	Deshmukh Rohit Kailas
7	AKN-2018/020	Dhage Sachin Digambar
8	AKN-2018/022	Dumbare Tejas Kailas
9	AKN-2018/023	Gagare Prajwal Machindra
10	AKN-2018/027	Gaikwad Vinit Vishnu
11	AKN-2018/033	Gosavi Prashant Pandurang
12	AKN-2018/036	Jadhav Kaustubh Manoj
13	AKN-2018/038	Jagtap Akash Avinash
14	AKN-2018/040	Kadam Vaibhav Jagdish
15	AKN-2018/041	Kadoo Himanshu Shashikant
16	AKN-2018/043	Kale Divya Chandrakant
17	AKN-2018/047	Kapadnis Mahesh Jibhau
18	AKN-2018/049	Karad Sandesh Tushar
19	AKN-2018/051	Kathepuri Avinash Vikas
20	AKN-2018/053	Kolhe Nayana Babasaheb
21	AKN-2018/054	Kshirsagar Omkar Vishwanath
22	AKN-2018/055	Kuwar Buddhabhushan Sanjeev

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23	AKN-2018/057	Mahajan Gaurav Eknath
24	AKN-2018/059	Malpure Nikhil Vasudeo
25	AKN-2018/060	Mamidwar Jagruti Vikas
26	AKN-2018/062	Mane Vishal Balasaheb
27	AKN-2018/067	More Kartik Vilas
28	AKN-2018/068	More Sawari Pundalik
29	AKN-2018/069	Nagare Rushikesh Sopan
30	AKN-2018/070	Nagare Shubham Valmik
31	AKN-2018/071	Nale Manoj Laxman
32	AKN-2018/075	Nikumbh Dhananjay Vijaysing
33	AKN-2018/078	Parase Ganesh Hanumant
34	AKN-2018/079	Patil Bhumika Suryabhan
35	AKN-2018/080	Patil Harshal Dipak
36	AKN-2018/081	Patil Narayan Ramdas
37	AKN-2018/082	Patil Omkar Vinod
38	AKN-2018/085	Patil Pravin Balkrushna
39	AKN-2018/086	Patil Rohan Rajendra

Course Coordinator

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STUDENT REGISTRATION FORM

Academic Year: 2019-20

(Department of Plant Pathology)

CERTIFICATE COURSE

'Biofertilizer Production Technology'

For Department Use Only

Registration No.: AKN-2018/033

Student ID: 06180270 18

Name of the Student: Gosavi prashant Pandurang

Mother's Name: Savita pandurang Gosavi

Father's Name: Gosavi pandurang Kashinath Year: 1st /2nd /3rd/4th

E-Mail ID: www.: prashant.g.012604@gmail.com

Address: Teacher colony, Pathardi, Tal: Pathardi, Di → A. nagar

State: Maharastra PIN Code: 414102

Mobile No: 9.657909819 Alternate contact number: 9834552488

Gender: Male ✓ Female ☐ Other ☐ Religion: HINDU

Date of Birth: 26/04/2000

Educational Qualification (at the time of admission):

HSC 76.15 % Other .....

Signature of Student

Place: Nashik

Date:

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Department of Plant pathology
Certificate course in
'Biofertilizer Production Technology'
Academic Year 2019-20

Schedule of the course

Sr no	Topic	Description	Name of the teacher	Department
1	**Introduction to Biofertilizers**	Study the history, types, and importance of biofertilizers in sustainable agriculture. Discuss the benefits of using biofertilizers over chemical fertilizers.	Ms. S. K. Sonawane	Plant Pathology
2	**Microbial Diversity in Biofertilizers**	Understand the different types of microorganisms used in biofertilizers, including bacteria, fungi, and cyanobacteria. Learn about their roles in nutrient cycling and plant growth promotion.	Dr. H. V. Deshmukh	Plant Pathology
3	**Isolation and Culturing Techniques**	Methods for isolating and culturing beneficial microorganisms from soil and plant roots. Learn to maintain pure cultures for biofertilizer production.	Ms. N. B. Bhoknal	Plant Pathology
4	**Production of Nitrogen-Fixing Biofertilizers**	Techniques for the production of biofertilizers using nitrogen-fixing bacteria such as Rhizobium, Azospirillum, and Azotobacter.	Ms. N. B. Bhoknal	Plant Pathology
5	**Production of Phosphate-Solubilizing Biofertilizers**	Methods for the production of phosphate-solubilizing biofertilizers using bacteria and fungi. Study the mechanisms of phosphate solubilization and its benefits.	Miss S.D. Kharat	Plant Pathology
6	**Quality Control and Commercialization**	Study the quality control measures, regulatory standards, and commercialization aspects of biofertilizers. Learn how to prepare a business plan and explore market opportunities.	Ms. S. K. Sonawane	Plant Pathology

Course Coordinator

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Department of Plant Pathology

Certificate course in

Bio fertilizer Production Technology

Academic Year 2019-20

Time Table

Sr. No	Date	Time		Topic
1	15/12/2019	10.00 am-01.00 pm	02.00 pm - 05.00 pm	Introduction to Biofertilizers
2	16/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Introduction to Biofertilizers
3	17/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Microbial Diversity in Biofertilizers
4	18/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Production of Nitrogen-Fixing Biofertilizers
5	19/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Production of Nitrogen-Fixing Biofertilizers
6	20/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Production of Phosphate-Solubilizing Biofertilizers
7	21/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Production of Phosphate-Solubilizing Biofertilizers
8	22/12/2019	10.00 am-01.00 pm	02.00 pm - 05.00 pm	Isolation and Culturing Techniques
9	23/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Quality Control and Commercialization
10	24/12/2019	9.00 am-10.00 am	05.00 pm - 06.00 pm	Quality Control and Commercialization
11	25/12/2019	10.00 am-12.00 am	-	Quality Control and Commercialization
	25/12/2019	-	01.00 pm-03.00 pm	Exam

Course Coordinator

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K K WAGH COLLEGE OF AGRICULTURE, NASHIK

Department of Plant Pathology

Certificate course in **Biofertilizer Production Technology**

Academic Year 2019-20

Sr no	Registration no.	Name of students Date:	15/12/2019		16/12/2019		17/12/2019		18/12/2019		19/12/2019		20/12/2019	
		Time:	10.00-1:00	2:00-5:00	9.00-10.00	5.00-6.00	9.00-10.00	5.00-6.00	9.00-10.00	5.00-6.00	9.00-10.00	5.00-6.00	9.00-10.00	5.00-6.00
1.	AKN-2018/005	Ate Nikhil Amardeep					A							
2.	AKN-2018/006	Bachhav Prasad Dilip								A				
3.	AKN-2018/008	Bagal Avinash Ramdas								A				
4.	AKN-2018/017	Deokar Tejal Kishor										A		
5.	AKN-2018/018	Desai Siddhesh Deepak				A								
6.	AKN-2018/019	Deshmukh Rohit Kailas												
7.	AKN-2018/020	Dhage Sachin Digambar												
8.	AKN-2018/022	Dumbare Tejas Kailas					A							
9.	AKN-2018/023	Gagare Prajwal Machindra									A			
10	AKN-2018/027	Gaikwad Vinit Vishnu			A									
11	AKN-2018/033	Gosavi Prashant Pandurang								A				
12	AKN-2018/036	Jadhav Kaustubh Manoj					A							
13	AKN-2018/038	Jagtap Akash Avinash												
14	AKN-2018/040	Kadam Vaibhav Jagdish												
15	AKN-2018/041	Kadoo Himanshu S					A							
16	AKN-2018/043	Kale Divya Chandrakant		A					A					
17	AKN-2018/047	Kapadnis Mahesh Jibhau								A	A			
18	AKN-2018/049	Karad Sandesh Tushar												

19	AKN-2018/051	Kathepuri Avinash Vikas																
20	AKN-2018/053	Kolhe Nayana Babasaheb																
21	AKN-2018/054	Kshirsagar Omkar Vishwanath																
22	AKN-2018/055	Kuwar Buddhabhushan Sanjeev																
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24	AKN-2018/059	Malpure Nikhil Vasudeo																
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27	AKN-2018/067	More Kartik Vilas																
28	AKN-2018/068	More Sawari Pundalik																
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30	AKN-2018/070	Nagare Shubham Valmik																
31	AKN-2018/071	Nale Manoj Laxman																
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33	AKN-2018/078	Parase Ganesh Hanumant																
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36	AKN-2018/081	Patil Narayan Ramdas																
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38	AKN-2018/085	Patil Pravin Balkrushna																
39	AKN-2018/086	Patil Rohan Rajendra																

Course Coordinator

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K K WAGH COLLEGE OF AGRICULTURE, NASHIK

Department of Plant Pathology

Certificate course in **Biofertilizer Production Technology**

Academic Year 2019-20

Sr no	Registration no.	Name of students Date:	21/12/2019		22/12/2019		23/12/2019		24/12/2019		25/12/2019
		Time:	9.00-10.00	5.00-6.00	10.00-1:00	2:00-5:00	9.00-10.00	5.00-6.00	9.00-10.00	5.00-6.00	10.00-1:00
1.	AKN-2018/005	Ate Nikhil Amardeep							A		
2.	AKN-2018/006	Bachhav Prasad Dilip									
3.	AKN-2018/008	Bagal Avinash Ramdas				A					
4.	AKN-2018/017	Deokar Tejal Kishor									
5.	AKN-2018/018	Desai Siddhesh Deepak									
6.	AKN-2018/019	Deshmukh Rohit Kailas									
7.	AKN-2018/020	Dhage Sachin Digambar									
8.	AKN-2018/022	Dumbare Tejas Kailas									
9.	AKN-2018/023	Gagare Prajwal Machindra									
10.	AKN-2018/027	Gaikwad Vinit Vishnu					A				
11.	AKN-2018/033	Gosavi Prashant Pandurang									A
12.	AKN-2018/036	Jadhav Kaustubh Manoj									
13.	AKN-2018/038	Jagtap Akash Avinash							A		
14.	AKN-2018/040	Kadam Vaibhav Jagdish									
15.	AKN-2018/041	Kadoo Himanshu S		A							
16.	AKN-2018/043	Kale Divya Chandrakant							A		
17.	AKN-2018/047	Kapadnis Mahesh Jibhau				A					A
18.	AKN-2018/049	Karad Sandesh Tushar									
19.	AKN-2018/051	Kathepuri Avinash Vikas			A						

20.	AKN-2018/053	Kolhe Nayana Babasaheb										
21.	AKN-2018/054	Kshirsagar Omkar Vishwanath										
22.	AKN-2018/055	Kuwar Buddhabhushan Sanjeev										
23.	AKN-2018/057	Mahajan Gaurav Eknath										
24.	AKN-2018/059	Malpure Nikhil Vasudeo										
25.	AKN-2018/060	Mamidwar Jagruti Vikas										
26.	AKN-2018/062	Mane Vishal Balasaheb										
27.	AKN-2018/067	More Kartik Vilas										
28.	AKN-2018/068	More Sawari Pundalik										
29.	AKN-2018/069	Nagare Rushikesh Sopan										
30.	AKN-2018/070	Nagare Shubham Valmik										
31.	AKN-2018/071	Nale Manoj Laxman										
32.	AKN-2018/075	Nikumbh Dhananjay Vijaysing										
33.	AKN-2018/078	Parase Ganesh Hanumant										
34.	AKN-2018/079	Patil Bhumika Suryabhan										
35.	AKN-2018/080	Patil Harshal Dipak					A					
36.	AKN-2018/081	Patil Narayan Ramdas										
37.	AKN-2018/082	Patil Omkar Vinod										
38.	AKN-2018/085	Patil Pravin Balkrushna										
39.	AKN-2018/086	Patil Rohan Rajendra										

Course Coordinator

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Department of Plant Pathology

Certificate course in

Biofertilizer Production Technology

Academic Year 2019-20

Examination Methodology

Sr no	Nature of exam	Marks
1	Written	30
2	Practical	20
3	Total	50

Reference:

1. **The Role of Microorganisms in Sustainable Agriculture**
T.K. Choudhury, S.P. Datta, and S. Swarup, *Biofertilizers: Types and Applications*. Available from: http://agritech.tnau.ac.in/sustainable_agri/biofertilizer.html
2. **The Functionality of Nitrogen-Fixing Bacteria**
Rajan Singh Jolly, *Nitrogen Fixation and Biofertilizers* [Updated 2017 October 27]: Available from: https://caloriebee.com/nutrition/Nitrogen-Fixation-and-Biofertilizers
3. **Phosphate-Solubilizing Microorganisms in Agriculture**
Role of Phosphate-Solubilizing Bacteria in Enhancing Plant Growth: Available from: https://www.phosphatesolubilizers.org
4. **USDA, United States Department of Agriculture, Agricultural Research Service**
Biofertilizer Use and Management [Release 2018 April]: Available from: https://ndb.nal.usda.gov/ndb/foods/show/11260?fgcd=&manu=&format=Full&count=&max=25&offset=2600&sort=ndb&order=asc&qlookup=&ds=&qt=&qp=&qa=&qn=&q=&ing=
5. **Wikipedia, The Free Encyclopedia**
Azospirillum [edited 2018 November 8]: Available from: https://en.wikipedia.org/wiki/Azospirillum
6. **ICAR – Indian Council of Agricultural Research**
Directorate of Biofertilizer Research, Techniques and Applications **[Printed: 2008,** 1000 Copies]: Available from: http://icarbiofertilizer.org/Techniques_Applications.pdf

Course Coordinator

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Department of Plant Pathology

Certificate course in
Biofertilizer Production Technology
Academic Year 2019-20

Student Result

Sr. No.	Registration no	Name of the students	Theory marks (30)	Practical Marks (20)	Mark Out of Total 50
1.	AKN-2018/005	Ate Nikhil Amardeep	26	17	43
2.	AKN-2018/006	Bachhav Prasad Dilip	25	18	43
3.	AKN-2018/008	Bagal Avinash Ramdas	28	18	46
4.	AKN-2018/017	Deokar Tejal Kishor	29	16	45
5.	AKN-2018/018	Desai Siddhesh Deepak	27	17	44
6.	AKN-2018/019	Deshmukh Rohit Kailas	26	18	44
7.	AKN-2018/020	Dhage Sachin Digambar	28	18	46
8.	AKN-2018/022	Dumbare Tejas Kailas	27	18	45
9.	AKN-2018/023	Gagare Prajwal Machindra	29	17	46
10.	AKN-2018/027	Gaikwad Vinit Vishnu	28	18	46
11.	AKN-2018/033	Gosavi Prashant Pandurang	30	18	48
12.	AKN-2018/036	Jadhav Kaustubh Manoj	28	18	46
13.	AKN-2018/038	Jagtap Akash Avinash	28	19	47
14.	AKN-2018/040	Kadam Vaibhav Jagdish	30	17	47
15.	AKN-2018/041	Kadoo Himanshu Shashikant	29	19	48
16.	AKN-2018/043	Kale Divya Chandrakant	27	17	44
17.	AKN-2018/047	Kapadnis Mahesh Jibhau	28	18	46
18.	AKN-2018/049	Karad Sandesh Tushar	29	17	46
19.	AKN-2018/051	Kathepuri Avinash Vikas	29	18	47
20.	AKN-2018/053	Kolhe Nayana Babasaheb	29	19	48
21.	AKN-2018/054	Kshirsagar Omkar Vishwanath	28	17	45
22.	AKN-2018/055	Kuwar Buddhabhushan Sanjeev	28	18	46
23.	AKN-2018/057	Mahajan Gaurav Eknath	28	18	46

WAGH COLLEGE OF AGRICULTURE NASHIK-3

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24.	AKN-2018/059	Malpure Nikhil Vasudeo	28	19	47
25.	AKN-2018/060	Mamidwar Jagruti Vikas	28	19	47
26.	AKN-2018/062	Mane Vishal Balasaheb	26	17	43
27.	AKN-2018/067	More Kartik Vilas	28	19	47
28.	AKN-2018/068	More Sawari Pundalik	29	20	49
29.	AKN-2018/069	Nagare Rushikesh Sopan	26	17	43
30.	AKN-2018/070	Nagare Shubham Valmik	27	18	46
31.	AKN-2018/071	Nale Manoj Laxman	28	19	47
32.	AKN-2018/075	Nikumbh Dhananjay Vijaysing	27	18	46
33.	AKN-2018/078	Parase Ganesh Hanumant	27	18	46
34.	AKN-2018/079	Patil Bhumika Suryabhan	26	17	43
35.	AKN-2018/080	Patil Harshal Dipak	29	17	43
36.	AKN-2018/081	Patil Narayan Ramdas	28	19	47
37.	AKN-2018/082	Patil Omkar Vinod	27	18	46
38.	AKN-2018/085	Patil Pravin Balkrushna	28	19	47
39.	AKN-2018/086	Patil Rohan Rajendra	27	18	46

Course Coordinator

Principal
PRINCIPAL
K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik

K. WAGH COLLEGE OF AGRICULTURE
NASHIK-3

K. K. Wagh College of Agriculture, Nashik
Department of Plant Pathology
Certificate course in : **Mushroom Production Technology**
Academic Year 2022-23
THEORY EXAMINATION

Class:		Semester :	
Day & Date:		Time:	
Subject:		Marks:	
Name of student:		Registration no:	

Multiple Choice Questions

Q.1…….media is used for isolation of PSB.	
a) Jensen's	**c) Pikovaskayas**
b) Fogg's	d) Carrot agar
Q. 2. Which of the following media is used for isolating Azotobacter?	
a) CRYEMA	c) Alexandrov agar
b) Jensen's	d) Both B and C
Q. 3. Congo red is used in isolation of……..	
a) Acetobacter	c) Azospirillum
b) Rhizobium	d) None of these
Q. 4. Direct dry heat is the principle of……..	
a) Hot air oven	c) Autoclave
b) Spirit lamp	d) Both A and B

Q. 5 Glasswares are sterilized in ……	
a) Autoclave	c) Laminar air flow
b) Hot air oven	d) BOD incubator
Q. 6. Autoclave is used for sterilization of……	
a) Soil	c) Glasswares
b) Media	d) Both A and B
Q. 7. Agar agar is obtained from…….	
a) Gelidium spp	c) Sea weed
b) Red algae	**d) All of the above**
Q. 8. Culture plates of microbes are kept in……..for growth.	
a) BOD incubator	c) Laminar air flow
b) Refrigerator	d) Oven
Q.9. Laminar air flow is used for…….	
a) Pouring media into petriplates	**c) Both A and B**
b) Isolation of microbes	d) Sterilization of glasswares
Q. 10. BGA is used in …….crop.	
a) Paddy	c) Azospirillum
b) Rhizobium	d) Acetobacter

Q. 11. In Sugar containing crops ..... biofertilizer is used.	
a) Azotobacter	c) Rhizobium
b) Acetobacter	d) BGA
Q. 12. Cellulose agar media is used for.....	
a) Azotobacter	**c) Organic matter decomposer**
b) PSB	d) Sulphur oxidising microbes
Q. 13. .....% calcium carbonate is added with carrier for solid biofertilizer Production.	
a) 5	**c) 1**
b) 2	d) 3
Q. 14. Carrier used for solid biofertilizer Production having .....mesh size.	
a) 250-300	c) 100-150
b) 200-250	d) Both A and B
Q. 15. Thickness of biofertilizer packing bag is.....	
a) 0.2mm	c) 0.6mm
b) 0.5mm	d) 0.4mm
Q. 16. .....is Sulphur oxidising bacteria	
a) Clostridium	c) Bacillus subtillis
b) Thiobacillus thiooxidans	d) Azotobacter spp.

Q. 17. .....fixes atomospheric nitrogen freely i.e. non-symbiotically.

a) Azotobacter	*c) Azolla*
b) Rhizobium	*d) Bacillus subtillis*

Q.18 Azolla is used as biofertilizer as it has.....

a) Rhizobium	*c) Mycorrhiza*
b) Cyanobacteria	d) large quantity of humus

Q.19 Azolla as biofertilizer increases the yield of rice fields by....

a) 10%	c) 30%
b) 20%	**d) 50%**

Q.20 The boifertilizers are.....

a) Cowdung and farm wastes	c) Quick growing crop ploughed under soil
b) Azolla and BGA	d) All of these

Q.21 A good example of biofertilizer which improves phosphorous uptake is

a) Azospirillum	c) Actinomycetes
b) Rhizobium	d) All of these

Q.22 A free living nitrogen fixing bacterium is

(a) Clostridium	(c) Rhizobium
(b) Azotobacter	**(d) Both A and B**

Q.23 Aquatic fern which is an excellent biofertilizer	
(a) Salvinia	(c) Marsilea
(b) Azolla	(d) Pteridium
Q.24 Bacterial fertilizer is	
(a) Anabaena	**(c) Rhizobium**
(b) Nostoc	(d) Phycomyces
Q.25 Biofertilizers include	
(a) Cowdung manure and farmyard waste	**(c) BGA / Anabaena and Azolla**
(b) A quick growing crop ploughed back	(d) All the above
Q.26 Leaves of plant used as biofertilizer belong to	
(a) Hibiscus	(c) Anabaena
(b) Mango	**(d) Azolla**
Q.27 Main sources of biofertilizers are	
(a) Bacteria	(c) Fungi
(b) Cyanobacteria	**(d) All the above**
Q.28 Most famous nitrogen fixing bacterium / biofertililzer is	
(a) Nitrobacter	(c) Nitrococcus
(b) Nitrosomonas	**(d) Rhizobium**

Q.29 Most suitable fertilizer of paddy fields is	
(a) Mycorrhiza	**(c) Symbiotic and nonsymbiotic cyanobacteria**
(b) Azotobacter and clostridium	(d) Rhizobium
Q.30 Rhizobium enters the plant through	
a) Leaf	c) Flower
b) Stem	**d) Root hair**

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Department of Plant Pathology
Certificate course in
Biofertilizer Production Technology
Academic Year 2019-20

Exam Block Report

Class- Final Year **Date-** 25/12/2019

Subject: Theory Paper of **Bio fertilizer Production Technology course**
Block no: 02

Sr no	Registration no	Name of student	Sign
1.	AKN-2018/005	Ate Nikhil Amardeep	
2.	AKN-2018/006	Bachhav Prasad Dilip	
3.	AKN-2018/008	Bagal Avinash Ramdas	
4.	AKN-2018/017	Deokar Tejal Kishor	
5.	AKN-2018/018	Desai Siddhesh Deepak	
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26.	AKN-2018/062	Mane Vishal Balasaheb	
27.	AKN-2018/067	More Kartik Vilas	
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37.	AKN-2018/082	Patil Omkar Vinod	
38.	AKN-2018/085	Patil Pravin Balkrushna	
39.	AKN-2018/086	Patil Rohan Rajendra	

Total no of student:
No of student present:
No of students absent:

Name and Sign of Jr. Supervisor

Name and Sign of Sr. Supervisor

K. K. WAGH COLLEGE OF AGRICULTURE NASHIK-3

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Department of Plant Pathology

Certificate course in
Biofertilizer Production Technology
Academic Year 2019-20

Exam Time Table

All enrolled students of the Certificate Course are hereby informed that for the academic year 2019-20, the Certificate Course on **Biofertilizer Production Technology** has been completed. The examination for this certificate course is scheduled to be conducted on 25/12/2019. Therefore, all students are required to be present without exception.

Note: Time Table is as follow

Sr no	Date	Time	Certificate course subject
1	25/12/2019	01:00 to 02:00 pm	Theory exam: Vegetable Grafting: Concept and Application course
2		02:00 to 03:00 pm	Practical Exam: Vegetable Grafting: Concept and Application course

Course Coordinator **Exam Incharge** **Principal**

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K. K. WAGH COLLEGE OF AGRICULTURE NASHIK-3

30/30

K. K. Wagh College of Agriculture, Nashik

Department of Plant Pathology

Certificate course in : **Biofertilizer Production Technology**

Academic Year 2019-20

THEORY EXAMINATION

Class:	second year	Semester :	IV
Day & Date:	25/12/2019	Time:	
Subject:	Biofertilizer Prodn Tech	Marks:	
Name of student:	Gosavi Prashant. P.	Registration no:	AKN-2018/033

Multiple Choice Questions

Q.1.....media is used for isolation of PSB.
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c) Pikovaskayas
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a) Hot air oven
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c) Autoclave
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Department of Plant Pathology
Certificate Course in Biofertilizer Production Technology
Academic Year 2019-20
Report

K.K. Wagh Education Society's K.K. Wagh College of Agriculture, Saraswatinagar, Nashik, offers education in agriculture at the undergraduate level. The college introduced a new Certificate Course in Biofertilizer Production Technology. A total of 39 students from the Department of Plant Pathology enrolled in this course. This course provided students with extensive knowledge about various types of biofertilizers and their applications in agriculture to enhance the quality and quantity of crop yields.

Course Outcome

1. Gain awareness of the historical and current perspectives of biofertilizer production.
2. Learn various methods for the production and application of biofertilizers.
3. Acquire knowledge about the different microorganisms used in biofertilizers and their roles in plant growth.
4. Understand the processes involved in the isolation, identification, and maintenance of beneficial microorganisms.
5. Explore the production methods of different biofertilizers, including nitrogen-fixing, phosphate-solubilizing, and mycorrhizal biofertilizers.
6. Examine the commercial aspects and economic benefits of biofertilizer production.

Students gained a comprehensive understanding of advanced methods in biofertilizer production and its application in agriculture. The course helped improve their practical skills, boosted their confidence, and enhanced their problem-solving abilities by addressing various factors affecting crop growth, especially biotic and abiotic stresses. The course highlighted the potential of biofertilizers as an environment-friendly and sustainable alternative to chemical fertilizers, fostering an interest in entrepreneurship among the students.

In the academic year 2019-20, thirty-nine students completed the certificate course, which comprised both theoretical and practical components. The course structure included a theory examination worth 30 marks and a practical examination worth 20 marks, totaling 50 marks. The course duration was from 15/12/2019 to 25/12/2019, encompassing 30 hours. Students who successfully completed the course received a certificate as an acknowledgment of their achievement.

The course coordinator was Ms. S. K. Sonawane, and the course committee members included Dr. H. V. Deshmukh, Ms. N. B. Bhoknal, and Ms. S. D. Kharat.

Course Coordinator

K.K.WAGH COLLEGE OF AGRICULTURE NASHIK-3

Principal
PRINCIPAL
K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik

K K Wagh Education Society's

K K WAGH COLLEGE OF AGRICULTURE

(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri)

Saraswatinagar, Panchavati, Nashik - 422 003

Certificate

This is to certify that Mr./Ms. Gosavi Prashant P.

Class S.Y.B.Sc. *has completed Certificate Course on* Bio-fertilizer production Technology *from* 15/12/2019 *to* 25/12/2019 *organized by*

Department of Plant pathology *in academic year* 2019-20

Date : 26/12/2019

Place : Nashik

Course Coordinator

K K WAGH COLLEGE OF AGRICULTURE NASHIK-3

Principal
K K Wagh College of Agriculture
Nashik

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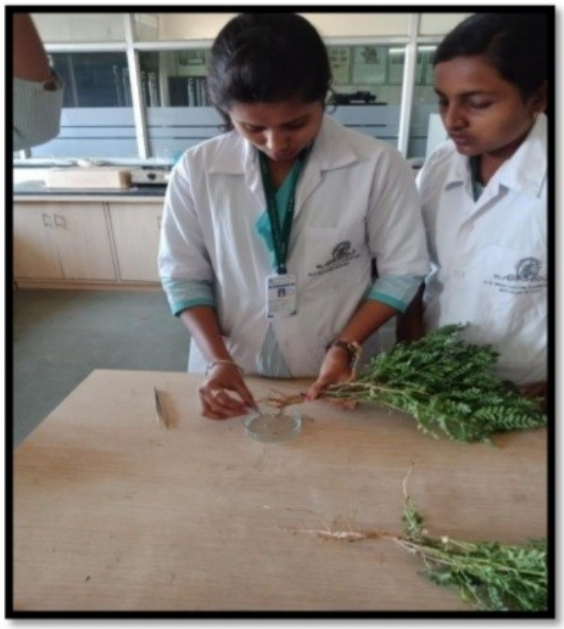

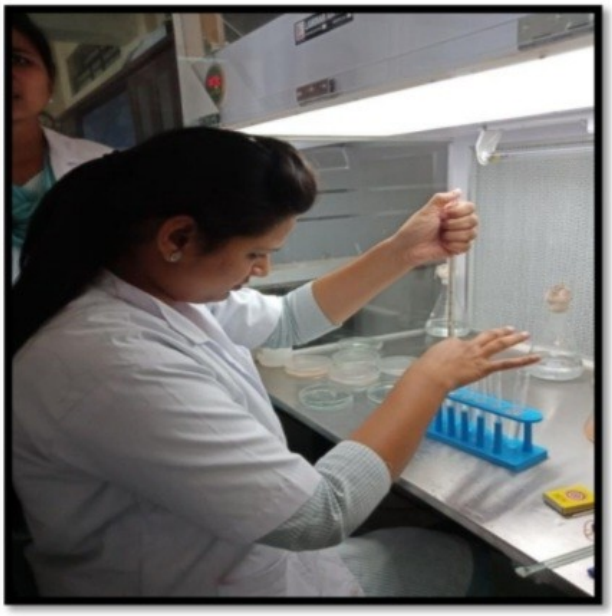

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