



**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Department of Microbiology**  
**A) A Summary Report of the Activity**

1) Title of Programme:		Certificate course "Biofertilizer technology: Gateway to Entrepreneurship"		
2) Name of Organizing Department/Unit:		Department of Microbiology		
3) Name of the Coordinator(s)/ Convener(s)/ Organizer(s) of the Programme:		Chief Organizer: Dr. Mahadev Gavhane, Principal Convener: Dr. K. G. Maske Coordinator: Dr. D. V. Vedpathak		
4) Date(s) of the Programme:		19 <sup>th</sup> to 23 <sup>rd</sup> March, 2024		
5) Venue:		Microbiology Lab I and II		
6) Target Group:		Students of UG and PG in Microbiology		
7) Number of Participants:		Male	Female	Total
A separate list with signatures be maintained in the department/Unit)	Teaching	00	03	3
	Non-Teaching	00	00	00
	Students	08	27	35
8) Name(s) and details of Resource Person(s), if any:		Mr. Ameya Ranjekar, MD, Green Vitals Biotech, Pune Prof. Mahendra Ranjekar, Technical Expert, Green Vitals Biotech, Pune		
9) Total Expenditure for the Programme:		<b>79,000</b>		
10) Source of Funding:		Through fee collection		

## **B) Report**

### **i. Title:** Certificate course (30 hr : 2 Credits)

“Biofertilizer technology: Gateway to Entrepreneurship”

### **ii. Introduction:**

The certificate course “Biofertilizer technology: Gateway to Entrepreneurship” was jointly organized by Department of Microbiology, Rajarshi Shahu Mahavidyalaya, Latur (Autonomous) and Green Vitals biotech, Pune under MoU. from 19<sup>th</sup> to 23<sup>rd</sup> March, 2024. The course is designed for technological and entrepreneurial development at all stages, with an emphasis on growing companies that meet the requirements of entrepreneurs and support a thriving local economy

### **iii. Objectives of the Programme / issues addressed:**

1. To isolate microbes for Biofertilizer production from soil .
2. To learn laboratory scale and industrial scale production of Biofertilizer
3. To Learn packaging, storage and viability testing of Biofertilizer
4. To learn application of produced Biofertilizer for plant growth promotion
5. To learn costing and marketing of Biofertilizer

### **iv. Details of Participants:**

38 participants (08 Male and 30 Female) successfully completed the certificate course.

### **v. Brief Summary of Events/ Sessions**

The certificate course “Biofertilizer technology: Gateway to Entrepreneurship” was jointly organized by Department of Microbiology, Rajarshi Shahu Mahavidyalaya (Auto.) and Green Vitals biotech, Pune under MoU from 19<sup>th</sup> to 23<sup>rd</sup> March, 2023.

It was inaugurated by respected Principal Dr. Mahadev Gavhane sir in presence of Mr Ameya Ranjekar, Prof. Mahendra Ranjekar, Vice Principal Prof. S. N. Shinde, and Head of the Microbiology Department Prof. K. G. Maske and all faculties of the department. The theoretical background and up stream processing protocols like isolation, identification, testing of plant growth promoting potential of soil bacteria . The training related to the industrial scale production of biofertilizer using fermenter, harvesting the product, mixing with carrier medium, packaging in bottles and in polythene sachets, costing and labeling protocols given by The Green Vitals biotech, Pune.

The participants were also provided with the knowledge of Government regulations about biofertilizer production, its testing standards, its shelf life and applications. The knowledge about basic infrastructural requirements, fund management and human resources required for a small scale startup is also conveyed to the students. After successful completion of the course participants were evaluated by conducting examination. Certificates were distributed to the participants in the valedictory program.

#### **vi. Conclusion, with Feedback on the**

**Outcomes :**The Certificate course in Biofertilizer Technology

- 1.Students will apply methods to produce biofertilizer on a pilot scale and its soil application for plant growth promotion.
2. Students also learned pricing and marketing skills of the product.
3. Students acquired the knowledge of Government regulations about biofertilizer production. Students inspired to start small scale startup in biofertilizer production


#### **vii. Any Appendix If Necessary**

List of participants attached





Date: 25<sup>th</sup> March, 2024.

Head  
  
Dr. K.G.Maske  
HEAD  
Dept. of Microbiology  
Rajarshi Shahu Mahavidyalaya  
LATUR - 413 512



  
Principal  
**PRINCIPAL**  
Rajarshi Shahu Mahavidyalaya  
(Autonomous), Latur

### C) Geotagged Photographs/ Screenshots

	
<p>COE Dr. O.V. Shahapurkar inaugurating the biofertilizer technology course</p>	<p>Prof. Mahendra Ranjekar demonstrating the fermenter loading</p>
	
<p>The ready to market solid and liquid form of biofertilizer</p>	<p>The department staff along with Dr. K.G. Maske celebrating the successful production of Rajarshi Biofert</p>



Felicitation Of Dr. M.K. Ranjekar



Distribution of Certificates to the participants



Participant students exhibiting the biofertilizer product- 'Rajarshi Biofert' they produced during the course



Valedictory program



## D) Brochure of the workshop

The brochure is for a workshop titled "Biofertilizer Technology: Gateway to Entrepreneurship". It is organized jointly by the Department of Microbiology and RISE at Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, and Green Vitals Biotech, Pune. The dates are 19-23 March 2024. The Principal and Chief Organizer is Dr. Mahadev Gavhane. The Vice Principal is Prof. S. N. Shinde. The IQAC Coordinator is Dr. A. A. Yadav. The Organizing Committee includes Dr. D. V. Vedpathak (RISE Director), Dr. M. K. Ranekar (Resource Person, Green Vitals Biotech, Pune), Mr. Amev Ranekar (M.D. and Resource Person, Green Vitals Biotech, Pune), and Dr. K. G. Maske (Mentor and Head, Dept. Microbiology). The background features a green field with a small plant growing, and various scientific images like petri dishes, a microscope, and a plant root system.

Shiv Chhatrapati Shikshan Sanstha's  
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Department of Microbiology and  
RISE  
Green Vitals Biotech, Pune  
Jointly Organizes  
"Biofertilizer Technology: Gateway to Entrepreneurship"

19-23 March 2024

Dr. Mahadev Gavhane  
Principal and Chief Organizer

Prof. S. N. Shinde  
Vice Principal

Dr. A. A. Yadav  
IQAC  
Coordinator

Organizing Committee

Dr. D. V. Vedpathak  
RISE Director

Dr. M. K. Ranekar  
Resource Person,  
Green Vitals Biotech,  
Pune

Mr. Amev Ranekar  
M.D. and Resource Person  
Green Vitals Biotech  
Pune

Dr. K. G. Maske  
Mentor and Head,  
Dept. Microbiology

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Department of Microbiology

Notice

Date: 18-03-2024

All students of BSc and MSc microbiology are hereby informed that

**" Biofertilizer Technology: Gateway to Entrepreneurship",** Certificate Course will be jointly organized by Department of Microbiology, Rajarshi Shahu Mahavidyalaya (Auto.), Latur and Green Vital Biotech, Pune under MoU.

- 1) Course will be scheduled during 19<sup>th</sup>- 23<sup>rd</sup> March 2024.
- 2) Certificate Course will be of Two credits ( 30hr ).

Those Students who are interested to participate are informed to enrol their names towards Prof .Ms. Shruti Deshpande. Registration Fee: 2400.00 Rs.

Course will commence on 19<sup>th</sup> March 2024 at 3.30pm

Head

Department of Microbiology

HEAD

Dept. of Microbiology,

Rajarshi Shahu Mahavidyalaya

LATUR - 413 512

**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Department of Microbiology**  
**Certificate Course on**  
**"Biofertilizer Technology: Gateway to Entrepreneurship"**  
**Under MOU with Green Vitals Biotech, Pune**  
**Participant List**

Date: 21-03-24

Sr. No.	Name of Participant	Class	Morning Session Sign	Evening Session Sign
1.	Chavan Shrikrishna Dnyanoba	B.Sc I		
2.	Shaikh Sumaiya Rahim	B.Sc II		
3.	Hanwate Abhishek Rajendra	B.Sc II		
4.	Deshmukh Krushnakumar Lalasaheb	B.Sc II		
5.	Deshmukh Arundhati Bapusaheb	B.Sc II		
6.	Shaikh Mahejbin	B.Sc II		
7.	Patel Arsiya Esak	B.Sc II		
8.	Kapre Mrudula	B.Sc II		
9.	Kalsadkar Radhika Govind	B.Sc II		
10.	Patil Jagrati Ramesh	B.Sc II		
11.	Mashalkar Akansha Rahul	B.Sc II		
12.	Bonte Pooja Balaji	B.Sc II		
13.	Patil Vaishnavi Vasant	B.Sc II		
14.	Chebale Anuja Laxman	B.Sc II		
15.	Ige Sakshi Dayanand	B.Sc II		
16.	Tak Kusum Deepak	B.Sc II		
17.	Haidrabade Pratiksha Dattatrya	B.Sc II		
18.	Ambore Omkar Rameshwarrao	B.Sc II		
19.	Mahajan Purva Shriram	B.Sc III		
20.	Samudre Kanchan Kalyan	B.Sc III		
21.	Gawhane Vaishnavi Dattatray	B.Sc III		
22.	Dhule Sakshi Sidhling	B.Sc III		
23.	Dongare Tanvi Nitin	B.Sc III		
24.	Qureshi Husna Haroon	B.Sc III		
25.	Tekale Suyash Balaji	B.Sc III		
26.	Dapke Sagar Narayan	B.Sc III		
27.	Sontakke Sudarshan Nagesh	B.Sc.III		
28.	More Shamsundar Madhukar	B.Sc.III		
29.	Banate Kshitija Ramakant	B.Sc.III		
30.	Yadav Namrata Chatrabhuj	M.Sc I		
31.	Rangdal Sanjana Rajendra	M.Sc I		
32.	Navtake Vishakha Santosh	M.Sc I		
33.	Yadav Manjusha Vijaykumar	M.Sc I		
34.	Lomte Mansi Dipak	M.Sc I		
35.	Kulkarni Maithili Satish	M.Sc I		

36. Rani S. Guddu Faculty.


37. Pratiksha S. Ghogare Faculty

38. Bembde Shradha Faculty



## Certificates of the Course

Head  
  
**Dr. K.G. Maske**  
 HEAD  
 Dept. of Microbiology  
 Rajarshi Shahu Mahavidyalaya  
 Latur - 413 512

  
 Principal  
**PRINCIPAL**  
 Rajarshi Shahu Mahavidyalaya  
 (Autonomous), Latur

