

Shiv Chhatrapati Shikshan Sanstha's Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Department of Microbiology A) A Summary Report of the Activity

1) Title of Programme:		The two-week 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 Organizing Secretary: Dr. D. V. Vedpathak			
4) Date(s) of the Programme:		12 th to 25 th August, 2022			
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	Teaching	02	05	07	
department/Unit)	Non-Teaching	00	00	00	
	Students	11	22	33	
	Total			40	
8) Name(s) and details of Resource Person(s), if any: 9) Total Expenditure for the Programme:		Mr. Ameya Ranjekar, MD, Green Vitals Biotech, Pune Prof. Mahendra Ranjekar, Technical Expert, Green Vitals Biotech, Pune Prof. K.G. Maske, Dr D. V. Vedpathak, Ms. P. D. Mane, Mrs. A. B. Dhaigude, Ms. S. S. Patil, Mr. A. S. Kadam, Ms. S. S. Deshpande, Dept. of Microbiology, RSM(A), Latur 76,000			
10) Source of Funding:		Through fee collection			

B) Report

i. Title:

Two-week certificate course Biofertilizer technology: Gateway to Entrepreneurship

ii. Introduction:

The two-week 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 12th to 25th August, 2022. 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. The aptitude and preparedness to create, plan, and manage a business enterprise along with all of its uncertainties in order to turn a profit is what is meant by entrepreneurship. The creation of new firms is the most visible illustration of entrepreneurship.

iii. Objectives of the Programme / issues addressed:

- 1. To focus on technological and entrepreneurial development
- 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:

40 participants (13 Male and 27 Female) attended the certificate course.

v. Brief Summary of Events/ Sessions

The two week 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 12th to 25th August, 2022.

It was inaugurated with the auspicious hands of 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. The theoretical background and up-stream processing protocols like isolation, identification, testing of plant growth promoting potential of soil bacteria was covered in first week. 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:

The two-week Certificate course in Biofertilizer Technology Students learned to produce biofertilizer on a pilot scale and its soil application for plant growth promotion. Students also learned pricing and marketing skills of the product. 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: 12th to 25th August, 2022.

Signature of HoD

Pept. of Microbiology
Rajarshi Shahu Mahawdyaian
LATUR - 413 512

Principal PRINCIPAL Rajarshi Shahu.Mahavidyalaya (Autonomous), Latur



C) Geotagged Photographs/ Screenshots



Principal Dr Mahadev Gavhane inaugurating the biofertilizer technology course



Mr. Ameya Ranjekar and Prof. Mahendra
Ranjekar demonstrating the fermenter
loading



The ready to market solid and liquid form of biofertilizer



The department staff along with Dr. K.G.

Maske celebrating the successful production



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



HoD Dr. K. G. Maske, Mr. Ameya Ranjekar and Prof. Mahendra Ranjekar and the staff of Microbiology department in valedictory function

D) Brochure of the workshop



Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Department of Microbiology Bio-fertilizer Technology: Gateway to Entrepreneurship Two-week Certificate Course Teachers List

Date: 12th to 25th August 2022

Sr. No.	Name Of Teacher	Gender	Sign
1.	Dr. K. G. Maske	Female	() de
2.	Dr. D. V. Vedpathak	Male	
3.	Mrs. A. B. Dhaigude	Female	Amruta
4.	Ms. P. D. Mane	Female	To the
5.	Ms. S. S. Patil	Female	Sanak
6.	Ms. S. S. Deshpande	Female	(String)
7.	Mr. A. S. Kadam	Male	deditya

Shiv Chhatrapati Shikshan Santha's Rajarshi Shahu Mahavidyalaya (Autonomous), Latur Department of Microbiology

And

Green Vital Biotech, Pune

Jointly Organizes

"Bio-fertilizer Technology: Gateway to Entrepreneurship" Two week Certificate Course

Batch A: Attendance Sheet

Sr.No.	Name of Participant	Class	13/08/22	14/08/22	15/08/22	16/08/22
1.	Patil Shagun Balbhim	B.Sc.III	相北	去心		本心
2.	Dhondevv Rucha Ratnakar	B.Sc.III	Rucha	Rucho	Pacha	Racha
3.	Kadam Aditya Anil	B.Sc.III	अर्वाम्व	31dily4	3 dilya	37dizya
4.	Joshi Akanksha Anand	B.Sc.III	Skankshu		Payonaher	Syanky
5.	Borgaonkar Dhairyshila Pravin	B.Sc. II	D.P.Borney		D.P.Bagel	D.P.Bage
6.	Sarole Pranav Vitthal	B.Sc.III	Agrose	Basse	Alarole	Dance
7,	Zambre Vaishnavi Daya	B.Sc.III	glaisturari_	Anarall.	100	1
8.	Rathod Abhishek Baliram	B.Sc.III	(Kaller)	alit-1	Playmour	gly Muc
9.	Kalme Mahesh Dhanraj	B.Sc. II	Wally	Laly	Nalse	Kert
10.	Deshmukh Priti Satish	B.Sc. II	army	Round	O de	*
11.	Pathan Sadiya Rasal	B.Sc. II	and .	Thursday.	A Dista	Mula
12.	Biradar Neha Vijay	B.Sc.III	- 0,	10	0. 160	Carron.
13.	Tidke Suhasini Kamalakar	B.Sc.III		8 Lugary	Birodeni Buldini	Bilholini Bilholini
14.	More Prapti Manikrao	B.Sc.III	(Propti	Dropi	Darti
15.	Shaikh Bushra Tajoddin	B.Sc.III	Bushour .	01	Buhan	1
16.	Shinde Shailja Anand	B.Sc. II	Parang	Blahea	Bush	Buhva

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Green Vital Biotech, Pune

Jointly Organized .

"Bio-fertilizer Technology :Gateway to Entrepreneurship"

Two week Certificate Course

Batch B Attendance Sheet

Sr.No.	Name of Participant	Class	1200000			
1.	Salunke Amarginh		13/08/22	14/08/22	15/08/22	16/08/22
	Murlidhar	B.Sc.III	Abel!	Mull.	the old	24
2,	Kale Trupti Bhaskar	B.Sc.III		ENCO	Man	Ahol:
3.	Kale Anuja Bhaskar		Kolo	tought	Jan Jan	to water
4.		B.Sc.III	Januar	Anyses	N.J.	1
	Barge Pratiksha Suryakant	M.Sc. II	Colle.	Gan Dy.	0.82.	Carre .
5.	Landge Sneha Pandurang	M.Sc. II	snelial.	Svehal	Inchal	Suelal
6.	Hodge Asawari Sainath	M.Sc. II	Basan	12V0	Man	
7.	Yemekar Akanksha A	M.Sc. II	Goddan (* Kusin	Bana	- Brand
8.	Kadkanje Mamta M	M.Sc. II	Roll	an		700
9.	Mane Anjali Balasaheb	M.Sc. II	Donari	Knane	Homane	temane
10.	Kalme GitashrieRamdas	M.Sc. II	Kalme	Kahm	Lame	700
11.	Kamble Dhodutatya Laxman	M.Sc. 11		, _	Bamb	Rembi
12.	Parale Gahininath Tukaram	M.Sc. II	The.	Gle	Fle	- Fle
13.	Shinde Swapnpriya Vasantrao	M.Sc. II	dide	Shirde	dide	Stade
14.	Hunde Somnath Madhavrao	M.Sc. II	as a	D	al	as a
15.	Deshatwar Rahul Ram	M.Sc. II	Rohux	Rahus	Rahu	Rahy
16.	Harne Shivam Subhash	M.Sc. II	Livery	Javan	divon	Trivos

Signature of HoD

Dept. of Microbiology Rejarshi Shahu Mahawdyaiaye LATUR - 413 512 Rajarshi Shahu.Mahavidyalaya (Autonomous), Latur

