

'Social Transformation Through Dynamic Education'



BHARATI VIDYAPEETH'S
MATOSHRI BAYABAI SHRIPATRAO KADAM KANYA MAHAVIDYALAYA
KADEGAON, Dist. Sangli – 415305

Dr. Patangrao Kadam

M.A., L.L.B., Ph.D.

Founder, Bharati Vidyapeeth, Pune

Website-<http://bvmbsskkmkadegaon.edu.in> Phone : 0247 242218

Prof. (Dr.) V Y Kadam

M. Sc., M Phil., Ph.D.

I/C Principal

Email. kmk101.cl@unishivaji.ac.in

7.3.1

Environmental Awareness



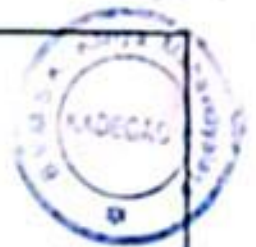
A. Environmental Awareness

Sr.No	Name of faculty	Name of Activity	Duration	Page No.
1	Prof.Dr. V.Y.Kadam, Department of Zoology	Vermicomposting	13 December 2022	1 to 3
2	Dr.S.R.Londhe, Department of Zoology	Birds feeding project	12th April 2022	4 to 7
3	Dr. C.E.Patil, Physics	Climate Change and Global Warming- villege Amrapur	4/4/2023	8 to 9
4	Prof.Dr. S.V.Pore, Chemistry	Awareness of soil analysis in farmers for agriculture - Adjoining villeges	9th December 2022.	10 to 20
5	Mr.S.N.Gotpagar, Chemistry	Awareness About Pesticides	9/12/2022	21 to 27
6	Dr.A.S.Kadam, Chemistry	Introduction to Food Adulteration	9/12/2022	28 to 35
7	Mr .A.L. .More	Awareness of Water Analysis	20 Nov. to 30 Nov.2022	36 to 38
8	Mr. J.V. Kuwar, Microbiology	Awareness among farmers about soil fertility through microbe	18th ,19th January 2023, 01st March 2023	39 to 43B



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Bharati Vidyapeeth's
Matoshri Bayabai Shripatrao Kadam Kanya
Mahavidyalaya, Kadegaon, Dist. Sangli



Outreach Activity (2022-23)

Title- Awareness of organic farming among farmers

Aims-

The aim of the outreach activity is to motivate and give preliminary knowledge about organic farming to the farmers in kadegaon taluka.

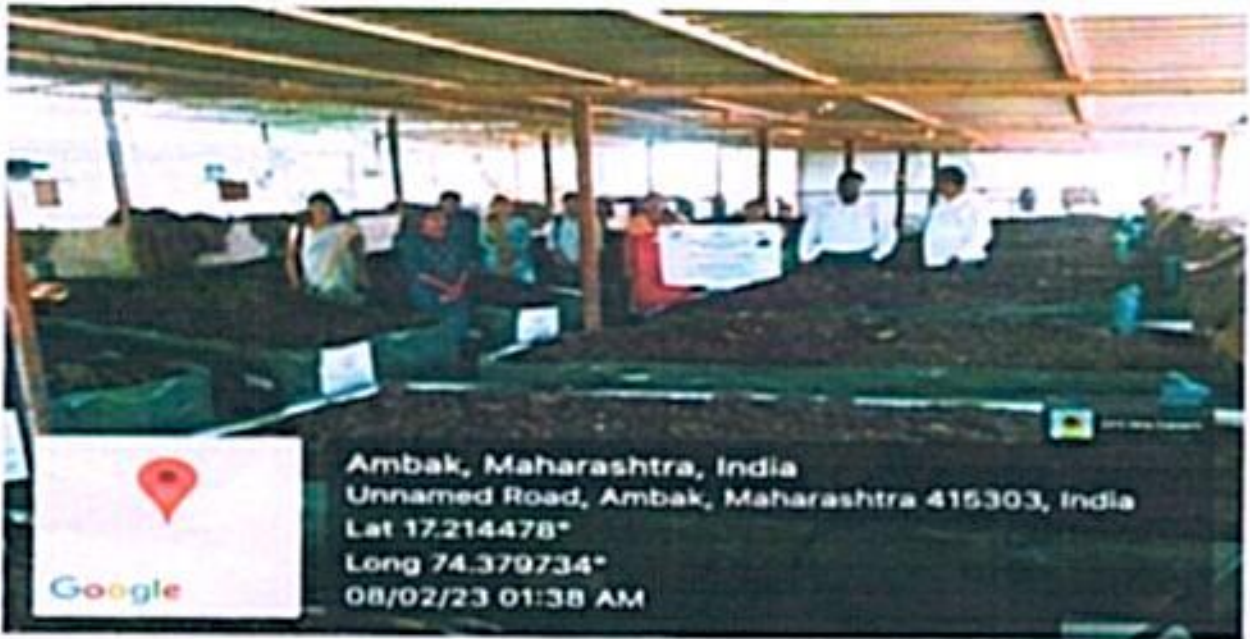
Objectives-

1. To provide information about organic farming to farmers.
2. to find out the reasons for not using organic farming techniques by the farmers.
3. To encourage the farmers to take organic farming.
4. To encourage farmers to use vermicompost instead of Chemical fertilizers.





Sangli, Maharashtra, India
Unnamed Road, Maharashtra 415305, India
Lat 17.281974°
Long 74.376416°
08/02/23 01:40 PM



Ambak, Maharashtra, India
Unnamed Road, Ambak, Maharashtra 415303, India
Lat 17.214478°
Long 74.379734°
08/02/23 01:38 AM





Outcomes of the Activity-

1. Farmers get information about the use of vermicomposting in organic farming
2. Farmers motivated to take Organic farming.
3. Farmers understood the importance of organic farming


HEAD
Dept. of Zoology
Bharati Vidyapeeth's
M.B.S.K. Kanya Mahavidyalaya,
Vadegaon, Dist. Sangli




Dr. V. Y. Kadam
UC Principal
BVM B.S.K. Kanya Mahavidyalaya,
Vadegaon, Dist. Sangli



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**Bharati Vidyapeeth's
Matoshri Bayabai Shripatrao Kadam Kanya
Mahavidyalaya, Kadegaon, Dist. Sangli**



Department of Zoology and Nature Club Activities 2021-22

Report

Birds feeding project - 2022

Date: 12th April 2022

Number of participants: 44

In the Summer season birds are lacking in feeding and drinking material. So, the department of Zoology in association with the Nature club has organized a Bird feeding project for B. Sc-II students in the academic year 2021-22. A total of 40 students were actively participated in this program. On this occasion, the I/C Principal Prof. V.Y. Kadam, Vice principal Prof. V.S. Salunkhe, Dr R. R. Jadhav, and the coordinator of this program Dr. S. R. Londhe have been present. Principal Prof.V. Y. Kadam addressed the student. Students prepare food and feeding apparatus for the birds. After preparing the apparatus they were filled with the feeding material and water and hung on the college campus trees for feeding the birds.


Dr. V Y Kadam

I/C Principal
B.V.M.B.S.K. Kanya Mahavidyalaya,
Kadegaon, Dist. Sangli



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 Bharati Vidyapeeth
 Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya,
 Kadegaon, Dist. Sangli
 Department of Zoology and
 Nature Club
 Birds Feeding project- 2022
Participated student list

Sr. No	Roll No	Name of the student	Signature
1.	14777	Jugadole Arpita Vilas	<i>Arpita</i>
2.	14500	Patil vaishnavi Sachin	<i>Vaishnavi</i>
3.	14499	Patil Rutuja Janardan	<i>Rutuja</i>
4.	14501	Pawar Aishwarya Bajramji	<i>Aishwarya</i>
5.	14497	Patil Anupama Anil	<i>Anupama</i>
6.	14455	Shinde Ashwami Balaso	<i>Ashwami</i>
7.	14459	Suryawanshi Snehal Dattatray	<i>Snehal</i>
8.	14458	Suryawanshi Samruddhi Shivaji	<i>Samruddhi</i>
9.	14448	Patil Bhagyashree pandurang	<i>Bhagyashree</i>
10.	14461	Tatole Anjali Laxman	<i>Anjali</i>
11.	14439	Kumbhar Gayatri Nathuram	<i>Gayatri</i>
12.	14606	Ghate Pranali Nandkishor	<i>Pranali</i>
13.	14431	Deshmukh Preethiba Kekaso	<i>Preethiba</i>
14.	14488	Mare Nikita Ravindea	<i>Nikita</i>
15.	14452	Pawar Sakshi Sandip	<i>Sakshi</i>
16.	14451	Pawar Priyanka Khandu	<i>Priyanka</i>
17.	14450	Pawar Pallavi Prakash	<i>P.P.Pawar</i>
18.	14449	Pawar Amruta Amar	<i>Amruta</i>
19.	14490	Mare Shubhangi Sharad	<i>Shubhangi</i>

20	14505	Salunkhe Vaishnavi Lalase	VS
21	14489	Mere Pranali Rajendra	MSRE
22	14476	Jagdale Varsharani Sharanji	Jagdale
23	14473	Hormane Priyanka Dilip	Hormane
24	14478	Kadam Shilpa Prakash	Kadam
25	14482	Kumbhar Vaishnavi Pandurang	Kumbhar
26	14468	Domb Alshata Rajendra	Domb
27	14484	Mahalik Poojanka Tulshiram	Mahalik
28	14502	Pawar Anurata Anandasheb	Pawar
29	14510	Suryawanshi Neha Vikas	Suryawanshi
30	14438	Kadam Pratiksha Prakash	Kadam
31	14432	Deshmukh Shrutika Ganesh	Deshmukh
32	14428	Chougule Priyanka Kamalakar	Chougule
33	14427	Abhang Nita Dattatray	Abhang
34	14419	F. Mere Priyanka Mayappa	Mere
35	14474	Jadhav Manisha Sambhaji	Jadhav
36	14513	Yadav Pratiksha Vikram	Yadav
37	14418	Mohite Pranali Nandkumar	Mohite
38	14444	Mohite Laxmi Dhanaji	Mohite
39	14447	Bankar Jayashri Ganakhanath	Bankar
40	14446	Nalawade Maya Dattatray	Nalawade
41	14433	Nalawade Bhagyashri Krishnat	Nalawade
42		Jadhav Swapnali Patang	Jadhav
43	14456	Shinde Dhanashri Niwas	Shinde
44	14462	Yadav Anaya Tanaji Rao	Yadav

Head
 Dept. of Zoology
 M.B.S. College
 Kalyan, Dist. Solapur



Bharati Vidyapeeth's
Matoshri Bayabai Shripatran Kadam Kunya Mahavidyalaya, Kadgaon, Dist. Sangli.

Department of Physics

Plan of Outreach Activity (Academic Year 2022-23)

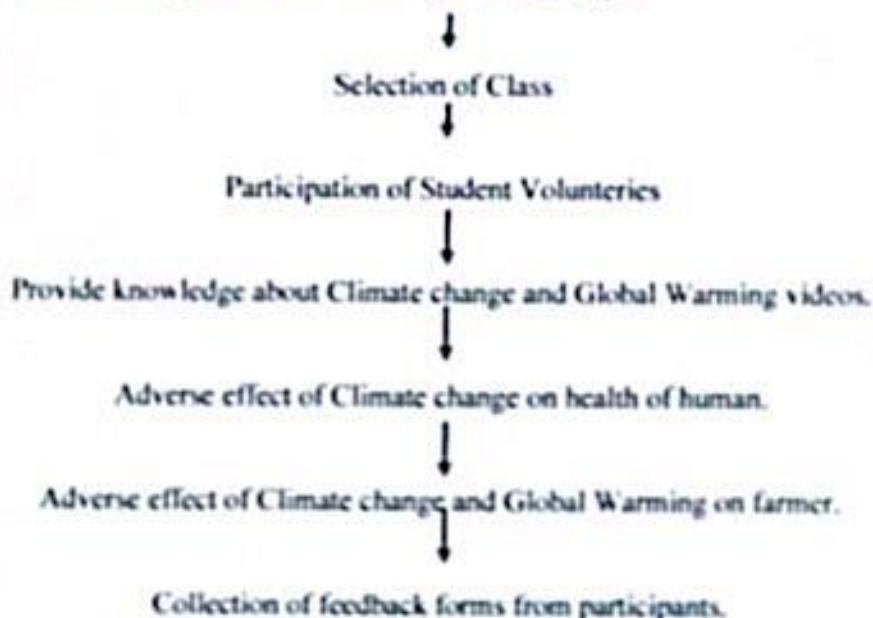
Name of Faculty: Dr. Chandrakant Ekanath Patil

Title of outreach activity: **Climate Change and Global Warming.**

- Objectives:**
1. To impart brief knowledge about Climate change and Global Warming.
 2. To create consciousness about adverse effect of Climate change and Global Warming.
 3. To create consciousness about adverse effects of Climate change on Human Life and health.
 4. To reduce emission of green house gases.

Target group: Young generation (Approximate number = 200).

Plan of outreach activity: Selection of nearby Junoir Colleges



- Possible outcome:**
1. Youngsters will aware about Climate change and Global Warming.
 2. Youngsters will restrict emission of green house effect gases.
 - 3 Youngsters will create awareness among others about adverse effects of Climate change and Global Warming.
 4. Youngsters will avoid production of harmful gases.



Students and Villagers Participated in Awareness about "Climate change & Global Warming" out reach activity at Amrapur Tal.- Kadegaon, Dist. Sangli Organized by Physics Department.



- Outcomes:**
- 1) Youngsters and Villagers Know hazardous effect of Climate change and Global Warming.
 - 2) Youngsters and Villagers shown commitment avoid emission green house effect gases.


 (Dr. C.E. Patil)
 Teacher-in-charge


 Dr. U.K. Mohite
 Head, Dept of Physics


 Prof. Dr. V. Y. Kadam
 H.C. Principal
 B.V.M.B.S.K. Kanya Mahavidyalaya,
 Kadegaon, Dist. Sangli



"Social Transformation Through Dynamic Education"



Bharati Vidyapeeth's
Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli.

Department of Chemistry

A Brief Summary / Report of the Event / Programme

Academic Year : 2022-2023

Details of the Programme

OUT RICH ACTIVITY

Title of the activity / Programme : "Awareness of Soil Analysis in
Farmer for Agriculture" 9 December 2022

a) Welcome and Introduction : To create awareness of Soil Analysis in farmer for Agriculture for the evaluation of the fertility and nutrient status of soil. It helps to avoid excess use of fertilizer and also to ensure environmental safety. This leads to evaluate suitability of the soil for the particular crop.



Miss. Shraddha Sida Sartape Student of Bsc. Part III Chemistry Welcomed and Introduced the programme.

b) Name of the Speaker : Miss. Shruti Sampat Deshmukh: B.Sc.III Student
Prof.Dr.Sanjay VishnuPore: Co-ordinator of this outreach activity
and Head, Department of Chemistry



Miss- Deshmukh Shruti Sampat, Student of B.Sc. Part III Chemistry delivered lecture on importance of evaluation of fertility and nutrient status of soil.



Prof. Dr. Sanjay Pore, Co-ordinator of this out rich activity and Head, Department of Chemistry explained how to avoid excess use of fertilizer with the help of soil analysis report of the farm and to ensure environmental safety.



Prof. Dr. V.Y. Kadam, President of this out rich activity and IC Principal of the college expressed importance of soil analysis for the cultivation of crop to maintain economy.



Shri. Sandip Sopan Gurav, Participant Farmer. Expressed his opinion and shared his field experience regarding importance of soil analysis and its beneficial effects to improve crop variety and economical condition of farmer.



Miss. Sonabai Sampat Mali. expressed vote of thanks of all the participant farmers of adjoining villages, resource persons and all the staff of Ashram shala wangi for providing necessary facilities to organize this social awareness programme.



Participation of farmers of adjoining villages and students of B.Sc part III Chemistry and faculty members of college.

e) Anchoring : Kiran channe and Divya kedare

Name of the Programme Coordinator : Prof. Dr. Sanjay Pore

Organizing Department / Committe/ Cell : Chemistry

Number of Participants : 10 Farmers and 37 students

Day and Date : 9th December 2022.


Place : Nivasi Ashram Shala, Wangi.

Course/ Programme Outcome :

1. Farmers will aware about Soil Analysis
2. Activity will create interest in evaluating fertility and nutrient status of soil and hence Restoration of soil fertility will be maintained
- 3 Prediction of the probability of obtaining a profitable response in agriculture will be possible.


(Prof. Dr Sanjay Vishnu Pore)


Prof. Dr. V. Y. Kadam


Prof. Dr. V. Y. Kadam
i/c, Principal
BVMBSK Kashi Mahavidyalaya
Kadegaon, Dist. Sangli

Teacher-in-charge of outreach activity Head, Dept of Chemistry

Venue: Nivasi Ashram Shala, Wangi. Tal: Kadegaon Dist. Sangli



"Social Transformation Through Dynamic Education"



Kavayitri Vidyapeeth's

Matankai Bayabai Shripatras Kadam Kaanya Mahavidyalaya, Kadegaon, Dist. Sangli

Department of Chemistry

OUTREACH ACTIVITY

AWARENESS OF SOIL ANALYSIS IN FARMER FOR AGRICULTURE

Attendance Report of the participants Day & Date: 9th Dec. 2022


Venue: Nivasi Ashram Shala, Wangi, Tal: Kadegaon Dist. Sangli

Sr.	Participant Name	Occupation	Mobile No	Signature
1	शुभ साहित सावान	Farmer	9146442170	E. Saavan
2	दीपक कनका शिंदे	Farmer	9850450279	Di. Shinde
3	महादेव शक्ति सावे	Farmer	9404684616	M. Saive
4	अशोक शक्ति सावे	Farmer	9840040200	A. Saive
5	सोमनाथ प्रकाश नुमन	Farmer	9062554760	S. Numan
6	शेखर सुधा शिंदे	Farmer	9064809110	S. Shinde
7	विलास शिंदे 922211	Farmer	623063634	V. Shinde
8	शुभ साहित सावान	Farmer	7216760511	S. Saavan
9	अशोक शक्ति सावे	Farmer	9066000000	A. Saive
10	महादेव शक्ति सावे	Farmer	9083322050	M. Saive
11	Neha sanjay Hermane	Student	8625283370	N. Hermane
12	Sneha Bhendare kali	Student	9613604552	S. Bhendare
13	Sayali Hemant Pujari	Student	9845102856	S. Pujari
14	Amrta Prakash Manf	Student	9168576259	A. Manf
15	Afiya Sadik Mulani	Student	7028988685	A. Mulani
16	Kumbhar Priya Sanjay	Student	9309259216	P. Kumbhar
17	Khavade Rutuja Rajendra	Student	9822543267	R. Khavade
18	Mulik Pratiksha Anand	Student	7488227088	M. Pratiksha
19	Pandit Sanjivani Bhagwan	Student	7020923058	P. Sanjivani
20	Salunke Chital Dhonji	Student	97027074	S. Salunke
21	Channe Kiran Prabhakar	Student	9195919498	C. Prabhakar



22	Mahila Vaishnavi Ananda	Student	9628272009	Pratik
23	Laxmi Anika Babasa	Student	9021003878	Pratik
24	Suryawansi Sudarshana Sach	Student	8624241198	Pratik
25	PoI Maguri Shivaji	Student	860865507	Pratik
26	Mahila Sarika Hanuman	Student	9693873023	Pratik
27	Kumbhar Sachal Sunil	Student	9146811216	Pratik
28	Suryawansi Tyoti Prakash	Student	7022165672	Pratik
29	Rutuja Shrinani Shinde	Student	022261705	Pratik
30	Nandini Shriya Manoj	Student	7028374993	Pratik
31	Ratna Raju Rajeshant	Student	964507466	Pratik
32	Sastri Shradha Sida	Student	875109666	Pratik
33	Mali Anshu Anshu	Student	882955537	Pratik
34	Jadhav Anurag Anand	Student	7558627040	Pratik
35	Patil Prachi Prakash	Student	6006232735	Pratik
36	Jadhav Prachi Santosh	Student	7700504537	Pratik
37	Khadke Anant Asha	Student	7828121607	Pratik
38	Mahila Vaishnavi Vasant	Student	9159547522	Pratik
39	Mahila Pratiksha Pradip	Student	721809092	Pratik
40	Kumbhar Anshu Pradip	Student	887644027	Pratik
41	Patil Prachi Santosh	Student	9970609461	Pratik
42	Jagdale Pratiksha Vasant	Student	7022165672	Pratik
43	Navat Pratiksha Pravin	Student	8850012006	Pratik
44	Khadke Divya Nikhil	Student	9353533291	Pratik
45	Imam Anurag Anand	Student	8100945262	Pratik
46	Kamble Anam Dhruv	Student	721809092	Pratik
47	Thorat Anshu Anand	Student	901819990	Pratik
48		Student		
49		Student		
50		Student		


 (Prof. Dr. V. V. Kadam)
 Teacher-in-charge of outreach activity Head, Dept of Chemistry


 Prof. Dr. V. V. Kadam


 Prof. Dr. V. V. Kadam
 IC Principal



"Social Transformation Through Dynamic Education"



Bharati Vidyapeeth's
Mahatma Jayprakash Narayan Karm's Mahavidyalaya, Kadiyana, Dist. Sonbhadra

Department of Chemistry

Plan of Outreach Activity (Academic Year 2022-23)

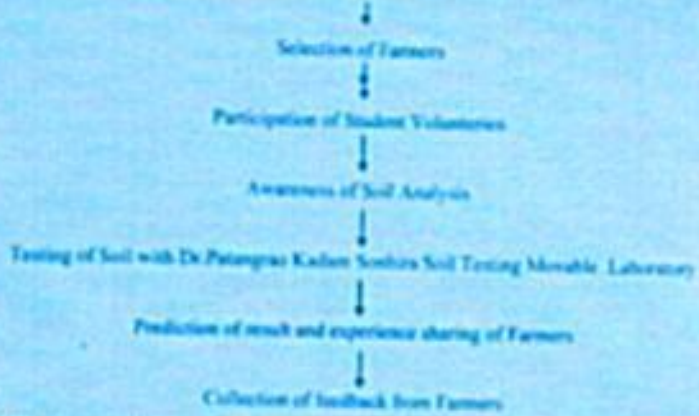
Name of Faculty: Prof. Dr. Pune Sankar Yadav

Title of outreach activity: Awareness of Soil Analysis in Farmer for Agriculture

- Objectives:
1. To create awareness of Soil Analysis in Farmer for Agriculture
 2. To evaluate the fertility and nutrient status of soil
 3. To avoid excess use of fertilizer and to ensure environmental safety
 4. Evaluation of the suitability of the soil for the crop

Target group: Farmers of adjoining villages (Approximate number = 20)

Plan of outreach activity: Selection of adjoining villages



- Possible outcome:
1. Farmers will aware about Soil Analysis
 2. Activity will create interest in evaluating fertility and nutrient status of soil and hence Restoration of soil fertility will maintained
 3. Prediction of the probability of obtaining a profitable response to application will be possible

Prof. Dr. Pune Sankar Yadav
Teacher-in-charge of outreach activity

Prof. Dr. V. Y. Kadam
Head of Chemistry
Bharati Vidyapeeth's
M.S.R.K. Karm's Mahavidyalaya,
Kadiyana, Dist. Sonbhadra

Prof. Dr. V. V. Kadam
V. V. Kadam
M.S.R.K. Karm's Mahavidyalaya,
Kadiyana, Dist. Sonbhadra



"Social Transformation Through Quality Education"



BHARATI VIDYAPEETH'S MATOSHRI BAYABAI SHIRIPATRAO KADAM KANYA MAHAVIDYALAYA

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INDEX NO. 22 RE 004
Phone: 020-2247-2021 • Fax: 0202-2247-2022 • E-mail: matoshri@bharativedyapeeth.edu
Website: <http://www.bharativedyapeeth.edu>


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Website: <http://www.bharativedyapeeth.edu>

Ref. BHM/2022/T1/ 002 - 003
Date: 07/11/2022

श्री,
ए. गुणवार,
ग्राम माता झाडे उत्तर,
पो. अ. अंभे, ज. अ. अंभे.

दया ! महामातये मातयेयुयं वामं वंद्यं अस्मै नमोः...

श्रीतः
यथातः शिवं अयं अमे महामातयेयुयं वंद्यं अस्मै नमोः... किं अमे न
दीर्घं अमे अस्मै नमोः... नमोः अस्मै नमोः... अस्मै नमोः... अस्मै नमोः...
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अमे शिवः

(श्री. श्री. अ. अंभे)
अध्यापिका
महामातयेयुयं
अस्मै नमोः...
अस्मै नमोः...



Bharati Vidyapeeth's
Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli.

Department of Chemistry

Plan of Outreach Activity (Academic Year 2022-23)

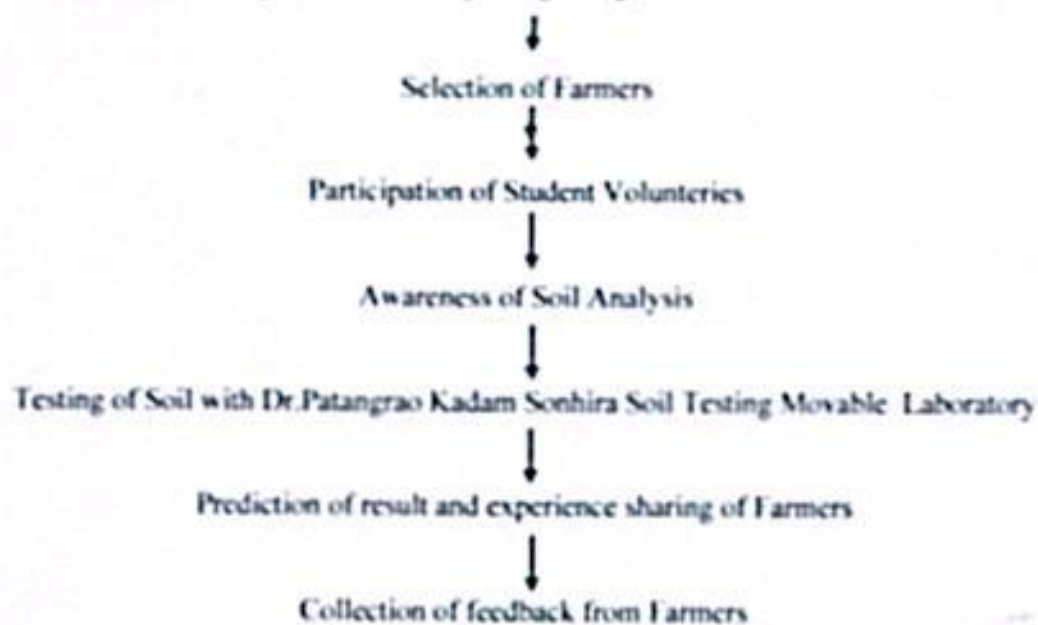
Name of Faculty: Prof. Dr. Pore Sanjay Vishnu

Title of outreach activity: Awareness of Soil Analysis in Farmer for Agriculture

Objectives: 1. To create awareness of Soil Analysis in farmer for Agriculture
2. To evaluate the fertility and nutrient status of soil
3. To avoid excess use of fertilizer and to ensure environmental safety.
4. Evaluation of the suitability of the soil for the crop

Target group: Farmers of adjoining villages (Approximate number = 20).

Plan of outreach activity: Selection of adjoining villages



Possible outcome: 1. Farmers will aware about Soil Analysis
2. Activity will create interest in evaluating fertility and nutrient status of soil and hence Restoration of soil fertility will maintained
3 Prediction of the probability of obtaining a profitable response in agriculture will be possible.

(Prof. Dr. Sanjay Vishnu Pore)

Prof. Dr. S.V. Pore

Prof. Dr. V. V. Kadam

Teacher-in-charge of outreach activity Head, Dept of Chemistry
V.C. Principal
B.V.M.B.S.K. Kanya Mahavidyalaya
Kadegaon Dist. Sangli



- To **evaluate** the fertility and nutrient status of soil for providing an index of nutrient availability or supply in a given soil.
- **Determination** of acidity, salinity and alkalinity problems.
- To provide a **recommendation** on the amount of manure and fertilizer based on soil test value and according to crop.
- To **avoid excess use** of fertilizer and to ensure environmental safety.
- When crops are harvested, a considerable amount of nutrients are removed from the soil and causes loss of fertility in soil over a long period of time. So, the soil should be tested.
- Evaluation of the **suitability of the soil for the crop**.
- **Restoration of soil fertility** is a key factor for crop productivity, profitability and sustainability.
- Fertilization programme must consider crop needs, soil supply, fertilizer use efficiency, the contribution from manures etc.
- **Time to time evaluation** of the inherent soil fertility status is essential for arriving at the crop and site-specific balanced fertilization program to sustain productivity.
- To **Predict** the probability of obtaining a profitable response to and fertilizers.

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"Social Transformation Through Dynamic Education"



Bharati Vidyapeeth's
Matoshri Jayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli.

Department of Chemistry

A Brief Summary / Report of the Event / Programme

Academic Year: 2022-2023

Details of the Programme

OUTREACH ACTIVITY

Title of the activity / Programme: "Introduction to Pesticides"

a) Welcome and Introduction:

9 December 2022

Pesticides are indispensable in agricultural production. They have been used by farmers to control weeds and insects, and their remarkable increases in agricultural products have been reported. The increase in the world's population in the 20th century could not have been possible without a parallel increase in food production. About one-third of agricultural products are produced depending on the application of pesticides. Without the use of pesticides, there would be a 78% loss of fruit production, a 54% loss of vegetable production, and a 32% loss of cereal production. Therefore, pesticides play a critical role in reducing diseases and increasing crop yields worldwide. Thus, it is essential to discuss the agricultural development process; the historical perspective, types and specific uses of pesticides; and pesticide behavior, its contamination, and adverse effects on the natural environment. The review study indicates that agricultural development has a long history in many places around the world. The history of pesticide use can be divided into three periods of time. Pesticides are classified by different classification terms such as chemical classes, functional groups, modes of action, and toxicity. Pesticides are used to kill pests and control weeds using chemical ingredients; hence, they can also be toxic to other organisms, including birds, fish, beneficial insects, and non-target plants, as well as air, water, soil, and crops. Moreover, pesticide contamination moves away from the target plants, resulting in environmental pollution. Such chemical residues impact human health through environmental and food contamination. In addition, climate change-related factors also impact on pesticide application and result in increased pesticide usage and pesticide pollution. Therefore, this review will provide the scientific information necessary for pesticide application and management in the future.



Prof. S. N. Gotpagar Co-ordinator of this outreach activity and while Mr P.D.Kamble guides about Pesticides.



Prof. Dr. V.Y. Kadam, President of this outreach activity and IC Principal of the college expressed the importance of Pesticides.



Express the vote of thanks by Mr.A.L. More



Participants: students of B.Sc. part III Chemistry, faculty members of the college and people (Village - Wangi)

Anchoring: Kiranshanne and DivyaKedare

Name of the Programme Coordinator: Mr.S.N. Gotpagar

Organizing Department / Committee/ Cell: Chemistry

Number of Participants 10 Farmers and 25 students

Day and Date: 9th December 2022.

Place: Nivasi Ashram Shala, Wangi.

Course/ Programme Outcome:



Impact of Climate Change-Related Factors on Pesticide Use

The use of synthetic pesticides has increased rapidly since World War II to prevent, mitigate, or destroy pests, reduce agricultural production losses, and improve affordable yields and the quality of food. Pesticide application is influenced by many factors, such as socioeconomic factors, environmental factors including soil condition, crop growth, and the occurrence of insect pests, weeds and diseases, and pesticide behavior in the environment (Figure 3). These factors are mostly influenced by climate change.

Influence on Pests, Weeds, and Diseases

Crop damage caused by insects, pests, weeds, and diseases results from the complicated ecological dynamics of more than two organisms, making it very difficult to analyze and forecast [97]. Climate change could lead to changes in phenology and geographic distribution in a wide range of ecosystems. The distribution and characteristics of pests, hosts, and bio-control agents having a relationship with the yield of crops are influenced by climate change. Increased temperatures, changes in precipitation, and increased levels of carbon dioxide owing to climate change are the main factors affecting pest insects, weeds, and diseases.

Pests in Crops

Regarding carbon dioxide, increases in atmospheric concentrations of CO₂ may alter the susceptibility of many plants to herbivore insects because of the changes in plant nutrition and defense mechanisms. Moreover, increases in CO₂ would cause changes in the soil nitrogen content, the distribution of pests, and changes in population density. Changes in precipitation will also cause changes in insect infestations. There are probably more severe insect infestations in wetter conditions. Wetter conditions also change the geographical distributions of insects.

Influence on Pesticide Behavior in the Environment

Pesticide transformation and degradation as well as movement are the main pesticide behaviors in the environment. Pesticide movement includes volatilization, runoff, and leaching processes, while pesticide degradation encompasses photolysis and chemical and microbial breakdown. These behaviors are influenced by climate change and climatic conditions.

Volatilization

Volatilization is the main source of pesticide pollution in the atmosphere. Increasing temperatures, higher soil moisture, and direct exposure to sunlight result in rapid volatilization. For example, the concentration levels of currently used pesticides were higher during May and August due to intensive use and relatively high temperatures in the spring and summer in the Bo-Hai Sea atmosphere]. Another example is that the concentration levels of hexachlorocyclohexanes (HCHs) in the air are higher in summer than in winter in Hangzhou in the Yangtze River Delta region, China. Similar to temperature, there is a rapid volatilization with humid soil after rainfall.

Pesticide Contamination and Its Adverse Effects on the Natural Environment



transfer and degradation, should be considered. Improper pesticide usage and management and pesticide behavior in the environment lead to environmental pollution, including soil pollution, water pollution, air pollution, and food contamination.

(Signature)
(Mr. N. G. Gopagar.)
(Teacher-in-charge
of outreach activity)

(Signature)
Prof. Dr. S. V. Pore
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Dept. of Chemistry
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Kadegaon, Dist. Sangli.

(Signature)
Prof. Dr. V. Y. Kadam
IC Principal
Principal
V.M.B.S.K. Kanya Mahavidyalaya
Kadegaon, Dist. Sangli

Venue: Nivasi Ashram Shala, Wangi, Tal: Kadegaon Dist. Sangli

"Social Transformation Through Dynamic Education"



Bharati Vidyapeeth's

Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli.

Department of Chemistry

OUTREACH ACTIVITY

"Introduction to Pesticides"

Attendance Report of the Participants Day & Date: 9th Dec. 2022

Venue: Nivasi Ashram Shala, Wangi, Tal: Kadegaon Dist. Sangli

Sr.	Participant Name	Mobile No	Signature
1	Hemanshi Nisha Sanjay	9025233972	Hemanshi
2	Kali Ancha Dhondiram	9673688653	Kali
3	Chavan Sharadiprambhu	7216174532	Sharad
4	Mane Anurag Prakash	9168576754	Anurag P. Mane
5	Pujari Sayali Hemant	8805105856	Sayali
6	Channe Kiran Prabhakar	9175719428	Kiran
7	Mahila Vaishnavi Ananda	9623272003	Vaishnavi
8	Lavand Archana Balasa	9021003979	Archana
9	Sawant Suvama Nattha	7498340101	Sawant
10	Plahajan Rutuja Suryakant	9665319684	Rutuja
11	Narule Shreya Manoj	7058574992	Shreya
12	Suryawanshi Jyoti Prakash	7028165677	Jyoti
13	Shinde Rutuja Arun	8484861703	Rutuja
14	Suryawanshi Sudeshant Suresh	86248112195	Sudeshant
15	Pat Majurishivaji	8010977369	Majurishivaji
16	Patil Sanjaygita Sambhaji	9021664300	Sanjaygita
17	Jathar Ganji Sandesh	7709594632	Ganji
18	Jathar Anurag Rakesh	7655022243	Anurag
19	Jathar Pranesh Prakash	8010605124	Pranesh
20	Deshmukh Shruhi Sampat	7823891398	Shruhi



21	Mridha Partha Manojant	9699375024	Phd
22	Rambhar Gopal Sunil	9146512810	Phd
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(Mr. S.S. Gotpagar.)
(Teacher-in-charge
of outreach activity)


Prof. Dr. S.V. Pore
Head, Dept of Chemistry
HEAD
Dept. of Chemistry
B.S.K. Kanya Mahavidyalaya
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Prof. Dr. V. Y. Kadam
IC Principal
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Kandejalon Dist. Sangli

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Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli.**

Department of Chemistry

A Brief Summary / Report of the Event / Programme

Academic Year: 2022-2023

Details of the Programme

OUTREACH ACTIVITY

Title of the activity / Programme: "Introduction to Food Adulteration"

a) Welcome and Introduction:

Food is one of the basic necessities for the sustenance of life. A pure, fresh and healthy diet is essential for the health of people. It is no wonder to say that community health is national wealth. Adulteration of food-stuffs was so rampant, widespread and persistent that nothing short of a somewhat drastic remedy in the form of comprehensive legislation became the need of the hour. So, we need simple screening tests for their detection. In the past few decades, adulteration of food has become of a serious problem. Consumption of adulterated food causes serious diseases like cancer, diarrhoea, asthma, ulcers, etc. The majority of fats, oils and butter are paraffin wax, castor oil and hydrocarbons. Red chilli powder is mixed with brick powder and pepper is mixed with dried papaya seeds. These adulterants can be easily identified by simple chemical tests. To create awareness of Food Adulteration in Society farmers for Agriculture for the evaluation of the fertility and nutrient status of the soil. It helps to avoid the excessive use of fertilizer and also to ensure environmental safety. This leads to evaluating the suitability of the soil for the crop.


uc. Principal
B V M B S K. Kanya Mahavidyalaya
Kadegaon, Dist. Sangli



Miss. Kedare Divya Kailas Student of Bsc. Part III Chemistry, Welcoming and introducing the programme.

b) Felicitation:



Principal Bhosale Sir Felicited by Principal Prof. (Dr.) V. Y. Kadam





Prof. Dr.Sanjay Pore, Co-ordinator of this outreach activity and Head, Department of Chemistry while guides about food adulteration.



Students express the Occult





Participant Expressed his opinion and shared his experience



Prof. Dr. V.Y. Kadam, President of this outreach activity and IC Principal of the college expressed the importance of Food Adulteration.





Express the vote of thanks by Mr P. D. Kamble





Participants: students of B.Sc. part III Chemistry, faculty members of the college and people (Village - Wangi)

Anchoring: Kiran channe and Divya Kedare

Name of the Programme Coordinator: Mr. More Amol Laxman

Organizing Department / Committee/ Cell: Chemistry

Number of Participants -39

Day and Date: 9th December 2022.

Place: Nivasi Ashram Shala, Wangi.

Course/ Programme Outcome:

1. People will be aware of adulteration in different foodstuffs regularly used in the kitchen.
2. Activity will create interest in food adulteration.
3. People can easily find out whether the given food material is adulterated or pure.
4. People will know the importance of food adulteration.
5. Students will benefit from the identification of food adulteration.
6. Students will know the importance of food adulteration.

(Mr. More A. L.)
(Teacher-in-charge of outreach activity)

Prof. Dr. S.V. Pure
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Dept. of Chemistry
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Kadegaon, Dist. Sangli

Prof. Dr. V. Y. Kadam
IC Principal
i.e. Principal
BVMBSK Kanya Mahavidyalaya
Kadegaon, Dist. Sangli

Venue: Nivasi Ashram Shala, Wangi. Tal: Kadegaon Dist. Sangli





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Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli.

Department of Chemistry

OUTREACH ACTIVITY

"Introduction to Food Adulteration"

Attendance Report of the Participants Day & Date: 9th Dec. 2022

Venue: Nivasi Ashram Shala, Wangi, Tal: Kadegaon Dist. Sangli

Sr.	Participant Name	Mobile No	Signature
1	Chavan Shravni Ramchandra	7218174839	
2	Kali Sneha Dhandiram	9873688653	
3	Honmane Neha Sanjay	8625833970	
4	Kumbhar Priya Sanjay	9309259214	
5	Khonade Rutuja Rajendra	9322543268	
6	Yadav Ankita Tanaji	7721039603	
7	Salunkhe Shital Dhanaji	9702733541	
8	Pujari Sayali Hemant	8805105856	
9	Mane Amruta Prakash	9168576754	
10	Alfiya Sadik Mulani	7028988685	
11	Mohite Vaishnavi Vasant	9359547523	
12	Mohite Sanika Hanamant	9699378023	
13	Kumbhar Snehal Sunil	9146812910	
14	Mohite Pratiksha Pradip	7212809092	
15	Kumbhar Arati Pradip	8856844017	
16	Mohite Vaishnavi Anand	9623272003	
17	Chenne Kisan Prabhakar	9175719428	
18	Mahajan Rutuja Suryakant	9665319814	
19	Norwal Shreya Manoj	7058574992	
20	Shinde Rutuja Arun	8483861703	
21	Suryawanshi Jyoti Prakash	7028165677	



22	Suryawansi Sudarshana	8024842198	Suryawansi
23	Patil Mayuri Shivaji	8010977369	Mayuri
24	Jogadale Pratiksha Vasant	7028573525	Pratiksha
25	Patil Pooja Sayaji	9970609451	Pooja
26	Mali Sonabai Sampat	8668315597	Ms. Sonabai
27	Sartape Shradha Sidu	8351091615	Shradha
28	Jadhav Gargi Santosh	7709594532	Gargi
29	Jadhav Apurva Rajendra	7558623243	A.A. Jadhav
30	Khabale Akanksha Ashok	7823021667	Akanksha
31	Lavant Archana Balaso	9021003979	Bavant
32	Sawant Suvarna Natna	7498370141	Suvarna
33	Pawar Sanyogita Sambhaji	9021504380	Sanyogita
34	Prof. M. S. V. P. Me	9581442229	M.S.V.P. Me
35	Shri. P. D. Kamble	9503911102	P.D. Kamble
36	Mr. S. N. Patil	8180977495	S.N. Patil
37	Gurav G. D.	7499804838	G.D. Gurav
38	Godare P. L.	7875776629	P.L. Godare
39	Sutale S. H.	9850715505	S.H. Sutale
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(Mr. Mote A. L.)
(Teacher-in-charge
of outreach activity)

Prof. Dr. S. V. Patil
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HEAD
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Prof. Dr. V. Y. Kadam
LC Principal
Vc. Principal
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Department of Chemistry

A Brief Summary / Report of the Event / Programme

Academic Year: 2022-2023

Details of the Programme

OUTREACH ACTIVITY

Title of the activity / Programme: "Awareness of Water Analysis"

a) Welcome and Introduction:

Water quality analysis is to measure the required parameters of water, following standard methods, to check whether they are in accordance with the standard. Why Water Quality Analysis is required? Water quality analysis is required mainly for monitoring purpose.

The presence of certain contaminants in our water can lead to health issues, including gastrointestinal illness, reproductive problems, and neurological disorders. Infants, young children, pregnant women, the elderly, and people with weakened immune systems may be especially at risk for illness.





Welcoming and introducing the programme.




Principal Bhosale Sir Falicited by Principal Prof. (Dr.) V. Y. Kadam



Participants: students of B.Sc. part III Chemistry, faculty members of the college and people (Village - Wangi)

- Outcomes:**
1. Awareness of Water Analysis for Agriculture & Drinking water.
 2. To evaluate the fertility and nutrient status of soil.
 3. To avoid excess use of fertilizer and to ensure environmental safety.
 4. Farmers and other Peoples will aware about Water Analysis.
 5. Prediction of the probability of obtaining a profitable response in Analysis for Agriculture & Drinking water will be possible.


 (Dr. A. S. Kadam)
 (Teacher-in-charge
 of outreach activity)


 Prof. Dr. S.V. Pore
 Head, Dept of Chemistry
HEAD
 Dept. of Chemistry
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 Prof. Dr. V. Y. Kadam
 I/C Principal
vc. Principal
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Bharati Vidyapeeth's
Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli
Department of Microbiology

A Brief Report of the Outreach Activity

Academic Year: 2022-2023

Details of the program

- Title: **Awareness among Farmers about Soil Fertility through Microbes**
- Program Coordinator: Mr. J.V. Kuwar
- Organizing Department: Department of Microbiology
- Number of Participants: 30
- Duration of the Program: 3 hours
- Dates: **18th January 2023**, 19th January 2023, 1st March 2023
- Places: Kadegaon, Wangi, Kadepur

Purpose:

The Awareness Program on Soil Fertility through Microbes was organized by the Department of Microbiology with the aim of spreading awareness among farmers regarding the significance of microorganisms in improving soil fertility. The program aimed to address the issue of decreasing soil quality due to the use of chemical fertilizers and highlight the role of microorganisms in reclaiming and enhancing soil fertility without incurring additional costs.

Program Outcome:

The program successfully provided essential information to farmers about the pivotal role of microorganisms in soil fertility. The participants gained knowledge about the various beneficial functions of microorganisms, such as nitrogen fixation, phosphate solubilization, and nutrient recycling.

Program Execution:

The program was conducted on three different dates, namely 18th January 2023, 19th January 2023, and 1st March 2023, in the towns of Kadegaon, Wangi, and Kadepur, respectively. Mr. J.V. Kuwar, the program coordinator, played a crucial role in organizing and facilitating the program.

During the program, the participants, consisting of farmers from the local communities, were provided with basic information about the significance of microorganisms in soil fertility. The speakers emphasized the harmful effects of chemical fertilizers on soil quality and the long-term benefits of utilizing microorganisms for soil improvement.

The program highlighted the specific roles of microorganisms in the soil ecosystem, such as fixing atmospheric nitrogen, solubilizing phosphate compounds, and recycling essential nutrients. Through interactive sessions, the participants were encouraged to share their experiences and ask questions, enabling a better understanding of the concepts presented.



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Department of Microbiology

The program also emphasized the cost-effectiveness of using microorganisms as a sustainable solution for improving soil fertility. The speakers provided practical examples and success stories from farmers who have adopted organic farming practices and benefited from the utilization of beneficial microorganisms.

Conclusion:

The Awareness Program on Soil Fertility through Microbes proved to be a valuable initiative for farmers. It successfully achieved its goal of spreading awareness about the importance of microorganisms in soil fertility. The participants gained insights into the various roles of microorganisms and their positive impact on soil health and productivity.

The program equipped the farmers with the knowledge and understanding necessary to transition from chemical-intensive farming practices to sustainable and organic methods that utilize beneficial microorganisms. By adopting such practices, farmers can enhance the fertility of their soil, reduce dependency on chemical inputs, and improve long-term agricultural sustainability.

The Department of Microbiology, through this program, contributed to the dissemination of essential information among farmers, empowering them to make informed decisions regarding soil management. The program coordinator, Mr. J.V. Kuwar, played a vital role in organizing and coordinating the program, ensuring its successful execution.

Overall, the Awareness Program on Soil Fertility through Microbes served as a platform for knowledge sharing and capacity building, promoting sustainable farming practices and supporting the well-being of farmers and the environment.

Program Coordinator

Head,
Dept. of Microbiology
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Kadegaon, Dist. Sangli

Principal
B.Y.M.B.S.K. Kanya Mahavidyalaya
Kadegaon, Dist. Sangli





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Long 74.333458°
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19/01/23 02:58 PM GMT +05:30



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Department of Microbiology**





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Department of Microbiology



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Department of Microbiology

Awareness among Farmers about Soil Fertility Enhancement Through Microbes

Sr. No.	Name of Farmer	Name of Village	Sign
1	Giddesh Pandurang Suryawade	wangi	[Signature]
2	Shreekrishna Shankar Suryawade	wangi	[Signature]
3	Sankhar Shivaji Suryawade	wangi	[Signature]
4	Mahadev Jaty Suryawade	Kadepur	M.T.V
5	Datta Jayati Makale	wangi	[Signature]
6	Dattatraya Nana Makale	wangi	[Signature]
7	Sangram Papat Mahite	wangi	[Signature]
8	Shivatej Shreekrishna Mahite	wangi	[Signature]
9	Dhanraj Rambhau Jagdale	wangi	[Signature]
10	Gandip Rambhau Jagdale	wangi	[Signature]
11	Tanaji Shivaji Jagdale	wangi	T.S.J
12	Chandrabani Vasant Suryawade	wangi	C.V.S
13	Somanath Nandev Jagdale	wangi	[Signature]
14	Sarhin Nandev Jagdale	wangi	[Signature]
15	Shankar Narayan Suryawade	wangi	[Signature]
16	Shardad Dhaniram Savant	wangi	[Signature]
17	Vijay Shivaji Vaire	wangi	[Signature]
18	Sunil Hanumanth Vaire	wangi	[Signature]
19	Navanath Dhaniram Savant	wangi	[Signature]
20	Setish Shivaji Yadav	wangi	[Signature]

[Signature]
 Teacher Kadegaon

[Signature]
Head,
 Dept. of Microbiology
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Department of Microbiology



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Department of Microbiology
Awareness among Farmers about Soil Fertility Enhancement Through Microbes

Sl. No.	Name of Student/Participant	Mobile No.	Sign
1	Pallavi Pandurang Gangswarshi	7221247525	<i>[Signature]</i>
2	Mayuri Hanmant Phoravade	7666749693	<i>[Signature]</i>
3	Durga arvind Patil	902238410	<i>[Signature]</i>
4	Priti Subhash Mane	9369298630	<i>[Signature]</i>
5	Pranoti Sitaram Gurav	9519189258	<i>[Signature]</i>
6	Ashwini Tejaram Mulik	8624814856	<i>[Signature]</i>
7	Priyanka Ambadas Pisal	8010014384	<i>[Signature]</i>
8	Kajal Sambhaji Jagtap	7052511602	<i>[Signature]</i>
9	Pratiksha Abir Pratikadam	8421828362	<i>[Signature]</i>
10	Sanika Dattatray Kadam	7620303440	<i>[Signature]</i>

[Signature]
Teacher Incharge

[Signature]
Head,
Dept. of Microbiology
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