
 "Education for Knowledge, Science, and Culture"
- Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur
(Autonomous)


Empowered Autonomous

Guest Lecture

Organized by

Department of Botany

on

9th February, 2022

Guest Lecture

Department of Botany



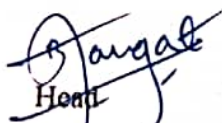
Vivekanand College, Kolhapur (Autonomous)

Department of Botany

Guest Lecture on Organic farming 9th February, 2022

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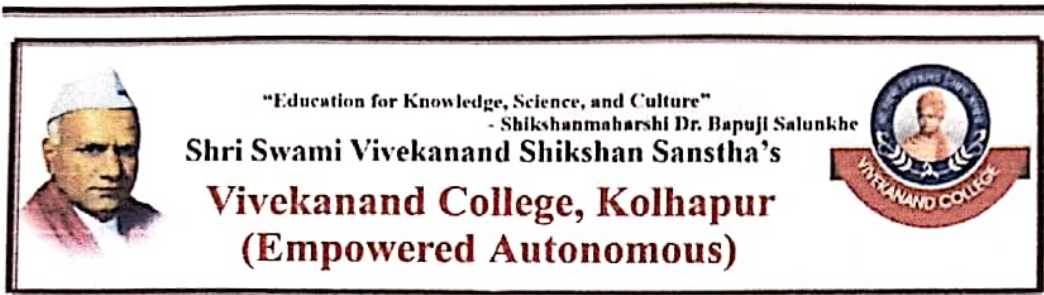

Head

Department of Botany
Head
Department of Botany
Vivekanand College
Kolhapur


Principal

Vivekanand College, Kolhapur
PRINCIPAL
Vivekanand College
Kolhapur





Department of Botany

Notice

Date- 07/02/2022

Students of B.Sc. II & III are hereby informed that the guest lecture on the topic "Non - chemical methods of pest control" is arranged on Friday dated 9th February 2022 at 11:30 a.m. at department of botany. Come ten minutes early for the talk to begin.


Dr. B. T. Pangat


(Head, Department of Botany,
Vivekanand College
Kolhapur



“Dissemination of Education for Knowledge, Science and Culture”

-Shikshanmaharshi Dr. Bapuji Salunke

Shree Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

Date-07/02/2022

To
The Principal,
Vivekanand College, Kolhapur (Autonomous).

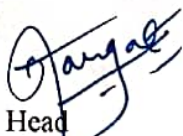
Subject-Permission to organize guest lecture for B.Sc. II & III students.

Respected Sir,

On February 9, 2022, the Department of Botany wishes to host a guestlecture for B. Sc. students on the subject organic farming and non-chemical pest management approaches.

Kindly permit us for the same.

Thanking You.


Head
Department of Botany
Head
Department of **Botany**
Vivekanand College
Kolhapur

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College Code No. 23-09-002
Jr. College U.Dise No. 27341301006

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-शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Estd.: June 1964



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MLA

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Prin. Abhaykumar Salunkhe
M.A.

Secretary
Prin.Mrs. Shubhangi Gawade
M.Sc.,B.Ed.

Principal
Dr. R. R. Kumbhar
M.Sc.,M.Phil.,Ph.D

Ref. No. VCK/

Date : 05/02/20 22

To,
Prof. Dr. P.B Mohite
Professor in Entomology
Agriculture College, Kolhapur.

Sub- Invitation as guest speaker for B. Sc II and III students on 9th February 2022.


Respected Sir,

We wish to invite you to deliver a guest lecture on the topic " Non-Chemical Methods of Pest Control" for the B.Sc. II and III students of our college. Your vast knowledge and experience in this subject would be highly beneficial for our students and faculty members. The lecture is scheduled to be held on 09th February 2022, from 11:00 am onwards, at the department of Botany of our college. We request you to kindly confirm your availability and acceptance of our invitation at the earliest.

Thanking you,


Dr. B. T. Dangat
Head
Department of Botany
Vivekanand College
Kolhapur

Yours sincerely,


Dr. R. R. Kumbhar
PRINCIPAL
Vivekanand College
Kolhapur



Participating student's attendance

Sl. No.	Name of the Student	Class	Mobile No.	Signature
1	Amruta Lavaso Khodbale		9637861491	[Signature]
2	Pallavi Sunil Chandanshive			
3	Mayur Sayaji Gaikwad		9404716547	[Signature]
4	Rutuja Sardar Walvekar		8421932520	[Signature]
5	Pranali Vinay Gurav		8698934874	[Signature]
6	Roshani Ruzano Barboza		9665782408	[Signature]
7	Ankita Vilas Pawar		7887592195	[Signature]
8	Pooja Ramchandra Patil	B.Sc. III (Botany)	8459067135	[Signature]
9	Megha Sadashiv Khot		9890698086	[Signature]
10	Shamal Shridhar Patil		7028804378	[Signature]
11	Harshada Dattatry Patil		7773991317	[Signature]
12	Nikita Sanjay Patil		8888344010	[Signature]
13	Saloni Sardar Angre		9370711100	[Signature]
14	Shital Shamrao Parande		9075822625	[Signature]
15	Nikita Raghunath patil		9975437269	[Signature]
16	Amita Sayaji patil		7972650410	[Signature]
17	Shrutikirti Shahaji Shinde	Bio tech. opt III	9667632734	[Signature]
18	Saloni Vijay Lambu		9588667128	[Signature]
19	Aishwarya Bhagvan Sasane		9881934600	[Signature]
20	Aakanksha Ashok Patil		7745009233	[Signature]
21	Anirudha Krishna Wadeyar		7448225966	[Signature]
22	Makarand Mohan Gokhale		7769966003	[Signature]
23	Pallavi Uday Nalawade		8329882209	[Signature]
24	Abhishek Narsingrao Kesarkar		9657388427	[Signature]
25	Sohan Ramesh Patil	B.Sc. II (Plant Protection)	7887424835	[Signature]
26	Prayakta Rajaram Kesarkar		9359897400	[Signature]
27	Shubhangi Krushnat Khot		9881322266	[Signature]
28	Rutuja Vinthal Kadam		7385145448	[Signature]
29	Prayakta Sanjay Mhatre		9325765447	[Signature]
30	Akanksha Harishchandra Khade		7057009272	[Signature]
31	Dhanashri Krushnat Benade		7447282003	[Signature]
32	Pradnya Bhikaji Patil		9112840857	[Signature]
33	Shardha Shankar Gaikwad		9623678344	[Signature]
34	Apeksha Yashavant Gaikwad		9767687572	[Signature]
35	Yash Ajit Rukdikar		9823728098	[Signature]
36	Siddhi Milind Chavan		7028199651	[Signature]
37	Krishnaraj Palghat	B.B.A. I	9518358963	[Signature]
38	Shreyas Chavan Tanaji		8308632747	[Signature]
39	Megha Ramesh Kumar Barge	Bio tech. opt. (III)	9325456044	[Signature]
40	Sanmadi Annapo Khot	B.Sc. II (P.P)	7767929108	[Signature]
41	Harshwardha Ajitsingh Aharpade	B.Sc. II	9146811918	[Signature]
42	Chivaneer Bhimrao Londhe	B.Sc. II	9881037852	[Signature]
43	Rutuja Lakshman Naik	B.Sc. II	5956128856	[Signature]
44	Soundarya Sanjay Khot	BSC II	8080282028	[Signature]



Participating student's attendance

Sr No.	Name of the student	Mob.No.	Signature
1)	Amruta Tatyasa Khodbale		<i>Khodbale</i>
2)	Pallavi Sunil Chandanshive		<i>Chandanshive</i>
3)	Mayuri Sayaji Gaikwad	9404716547	<i>Gaikwad</i>
4)	Rutuja Sardar Walvekar	8421932520	<i>Walvekar</i>
5)	Pranali Vijay Gorav	8698934874	<i>Gorav</i>
6)	Rashani Ruzario Barboza	9665782408	<i>Barboza</i>
7)	Ankita Vilas Pawar.	7887592195	<i>Pawar</i>
8)	Pooja Ramchandra Patil	8439067135	<i>Patil</i>
9)	Megha Sadashiv Khot	9890698085	<i>Khot</i>
10)	Shamal Shridhar Patil	7028804378	<i>Patil</i>
11)	Harshada Dattatry Patil	7773991317	<i>Patil</i>
12)	Nikita sanjerna Patil	8888344010	<i>Patil</i>
13)	Saloni Sardar Angre	9370711100	<i>Angre</i>
14)	Shital Shamrao Forande	9075822625	<i>Forande</i>
15)	Nikita Roghunath Patil	9975487269	<i>Patil</i>
16)	Amrita Sayaji Patil	7972650410	<i>Patil</i>



Participating student's attendance

Plant Protection.

S. Y. B. Sc

1) Aishwarya Bhagvan Sawane	9881934600	<u>B Sawane</u>
2) Akanksha Ashok Patil.	7745009233	<u>A Patil</u>
3) Anindha Krishna Wadegar.	8744822596	<u>A Wadegar</u>
4) Akarand Mohan Gekhale.	7769960003	<u>A Gekhale</u>
5) Pallavi Uday Nalawade.	8329882209	<u>P Nalawade</u>
6) Abhishek Narsingrao Kesarkar	9657388427	<u>A Kesarkar</u>
7) Sohan Ramesh. Patil	7887424835	<u>S Patil</u>
8) Prajakta Rajaram Kesarkar	9359897400	<u>P Kesarkar</u>
9) Shubhangi Keishnat Khot	9881322266	<u>S Khot</u>
10) Rutuja Vitthal Kadam	7385145448	<u>R Kadam</u>
11) Prajakta Sanjay Mhatugade	9325765447	<u>P Mhatugade</u>
12) Akanksha Hareshchandra Khade	7057009272	<u>A Khade</u>
13) Dhanashei Keushnat Benade.	7447282003	<u>D Benade</u>
14) Peadnya Bhikaji Patil	9112840857	<u>P Patil</u>
15) Sheadha Shankar Gaikwad	8623678344	<u>S Gaikwad</u>
16) Apeksha Yashavant Gaikwad	9767687572	<u>A Gaikwad</u>



Snapshot of Prof. Dr. P.B. Mohite delivering lecture to the B.Sc II and III students



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President
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Chairman
Prin. Abhaykumar Salunkhe
M.A.

Secretary
Prin.Mrs. Shubhangi Gawade
M.Sc.,B.Ed.

Principal
Dr. R. R. Kumbhar
M.Sc.,M.Phil.,Ph.D

f. No. VCK/

Date : 09/02/2022

Letter of Appreciation

We are extremely grateful to you for accepting our invitation and delivering a guest lecture on the topic of "Non-Chemical Methods of Pest Control". Your lecture was very informative, engaging, and inspiring for our students and faculty members. You covered various aspects of the subject with clarity and depth, and also answered the queries of the audience with patience and expertise.

We appreciate your generosity and willingness to share your valuable knowledge and experience with us. Your lecture has enhanced our understanding of the importance and challenges of plant diversity and conservation in the present scenario. We hope to have more opportunities to learn from you in the future.

Thanking you once again for your time and service.

Place: Kolhapur

Date: 09/02/2022

Dr. B. T. Dangat
Head
Department of Botany
Vivekanand College
Kolhapur



Dr. R. R. Kumbhar
PRINCIPAL
Vivekanand College
Kolhapur



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Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Botany

Date-10/02/2022

One page report on guest lecture on Organic Farming

On 9th February 2022, the Department of Botany at Vivekanand College, Kolhapur (autonomous) organized a guest lecture on organic farming by Prof. P.B. Mohite, a well-known entomologist and researcher at college of agriculture, Kolhapur. The title of the lecture was "Non-Chemical Methods of Pest Control", which aimed to introduce the students to the various alternatives to chemical pesticides for managing pest populations in crops.

Non-chemical methods of pest control are alternative ways to manage pests without using synthetic pesticides. They are based on the principles of integrated pest management (IPM), which aims to reduce the use, risk and dependence on pesticides, and to promote sustainable agriculture and ecologically sound pest management.

Prof. Mohite explained the different types of non-chemical methods, such as cultural, physical, mechanical and behavioral control. He gave examples of each method and how they can be applied in different crops and situations. He also discussed the advantages and disadvantages of non-chemical methods, as well as the challenges and opportunities for their adoption by farmers.

Some of the main points of the lecture were:

- Cultural control involves modifying the crop environment or practices to make it less favorable for pest development and survival. For example, crop rotation, intercropping, sanitation, resistant varieties, etc.



- Physical control uses temperature, heat, pressure, light, etc. to kill or repel pests. For example, solarization, hot water treatment, cold storage, UV traps, etc.
- Mechanical control uses devices or machines to physically remove or exclude pests. For example, entoleter, sieves, screens, nets, etc.
- Behavioral control uses substances or stimuli that affect the behavior of pests, such as attraction, repulsion, confusion, etc. For example, insect pheromones, kairomones, plant extracts, etc.

Prof. Mohite concluded the lecture by highlighting the benefits of non-chemical methods, such as:

- They are less expensive and more accessible than pesticides
- They are safer for human health and the environment
- They preserve the natural enemies and biodiversity
- They reduce the risk of pest resistance and resurgence
- They enhance the quality and quantity of the produce

He also emphasized the need for more research, extension and education on non-chemical methods, as well as the integration of different methods for effective and sustainable pest management.


 Head
 Head
 Department of Botany
 Department of Botany
 Vivekanand College
 Kolhapur





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-Shikshanmaharshi Dr. Bapuji Salunkhe

Vivekanand College, Kolhapur (Autonomous)

Internal Quality Assurance Cell 2022-23



Quality Initiatives/Activities Report

1. **Name of Department:** Botany
2. **Name of Organized Activity:** Guest Lecture on Organic Farming
3. **Date/Duration:** 9th February, 2023.
4. **Aims and Objectives:**

Aims:

1. **Sustainable Food Production:** Organic farming aims to consistently and adequately produce "healthy and nutritious food". It prioritizes the well-being of consumers by providing chemical-free, wholesome produce.
2. **Ecosystem Preservation:** By working with natural systems rather than dominating them, organic farming seeks to "maintain and enhance biological cycles" within the farming system. This involves microorganisms, soil flora and fauna, plants, and animals.
3. **Environmental Stewardship:** Organic farming strives to reduce pollution, prevent soil erosion, and mitigate soil degradation. It emphasizes practices that protect the environment, such as avoiding synthetic chemicals and promoting soil health.

Objectives:

1. **Integrated Pest Management (IPM):** Implementing non-chemical methods to control pests is a core objective.

IPM combines various strategies, including: - **Biological Control:** Encouraging beneficial insects, predators, and parasites to naturally regulate pest populations.

Crop Rotation: Rotating crops to disrupt pest life cycles and reduce their impact.

- **Trap Crops:** Planting specific crops to attract pests away from main crops.
- **Physical Barriers:** Using nets, screens, or row covers to prevent pest access.

0



- Companion Planting: Growing compatible plants together to deter pests.

2. Enhanced Soil Health: Organic farming aims to maintain and increase long-term soil fertility. Healthy soil supports robust plant growth and resilience against pests. Practices like composting, cover cropping, and organic amendments contribute to soil vitality.

3. Biodiversity Promotion: By avoiding synthetic pesticides, organic farming encourages biodiversity. Beneficial insects, birds, and other wildlife play essential roles in pest control. A diverse ecosystem helps maintain a balance between pests and their natural enemies.

4. Reduced Reliance on Chemicals: Organic farmers strive to minimize dependence on synthetic pesticides. Instead, they utilize natural alternatives such as neem oil, garlic extracts, and bio-pesticides. This approach protects both human health and the environment.

5. Holistic Approach: Organic farming considers the interconnectedness of all elements—soil, water, plants, and animals. It aims to create a harmonious system where each component contributes to overall sustainability.

5. No.ofbeneficiaries:76

6.Expenditure&fundingagency:/collaborators:No

7. Briefdescription:

Organic farming is a method of agriculture that does not use synthetic chemicals or genetically modified organisms. Instead, it relies on natural processes and techniques to enhance soil fertility, crop diversity, and pest control. One of the main challenges of organic farming is to manage pests without harming the environment or human health.

8. Outcome

The guest lecture on Non-Chemical Methods of Pest Control as a course under career-oriented course in organic farming for B. Sc students conducted by department of botany, Vivekanand College, Kolhapur (autonomous) yielded a very positive outcome.

Non-chemical methods are alternatives to using pesticides or other chemicals to control pests and diseases in crops and gardens. They are based on biological, physical, or cultural principles that prevent or reduce pest populations and damage.

- Benefits of non-chemical methods include: reducing environmental pollution, preserving natural enemies and biodiversity, enhancing crop quality and health, saving costs and resources, and avoiding pest resistance and resurgence.

- Examples of non-chemical methods are: crop rotation, intercropping, mulching, biological

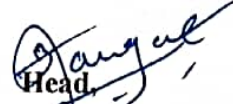


control, mechanical control, trap crops, pheromone traps, and resistant varieties. Each method has its own advantages and limitations, and they can be combined for better results.

- Challenges of non-chemical methods are: lack of awareness and knowledge, insufficient research and extension, high initial investment and labor, variable efficacy and reliability, and social and cultural barriers. These challenges can be overcome by improving education, training, policy, and incentives for farmers and consumers.

Thus, the guest lecture conducted by department of botany, Vivekanand College, Kolhapur (autonomous) was an eye-opening session for students and faculty members and understood the importance why non chemical method of pest control will be helpful for organic farming.

Thus, the guest lecture conducted by department of botany, Vivekanand College, Kolhapur (autonomous) was an eye-opening session for students and faculty members and understood the importance why non chemical method of pest control will be helpful for organic farming.


Head

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Department of Botany
Vivekanand College
Kolhapur

