

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi. Recognized by Government of Karnataka.

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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

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DEPARTMENT OF AGRICULTURAL ENGINEERING

-----ACTIVITY REPORT 2022-23

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Annexure

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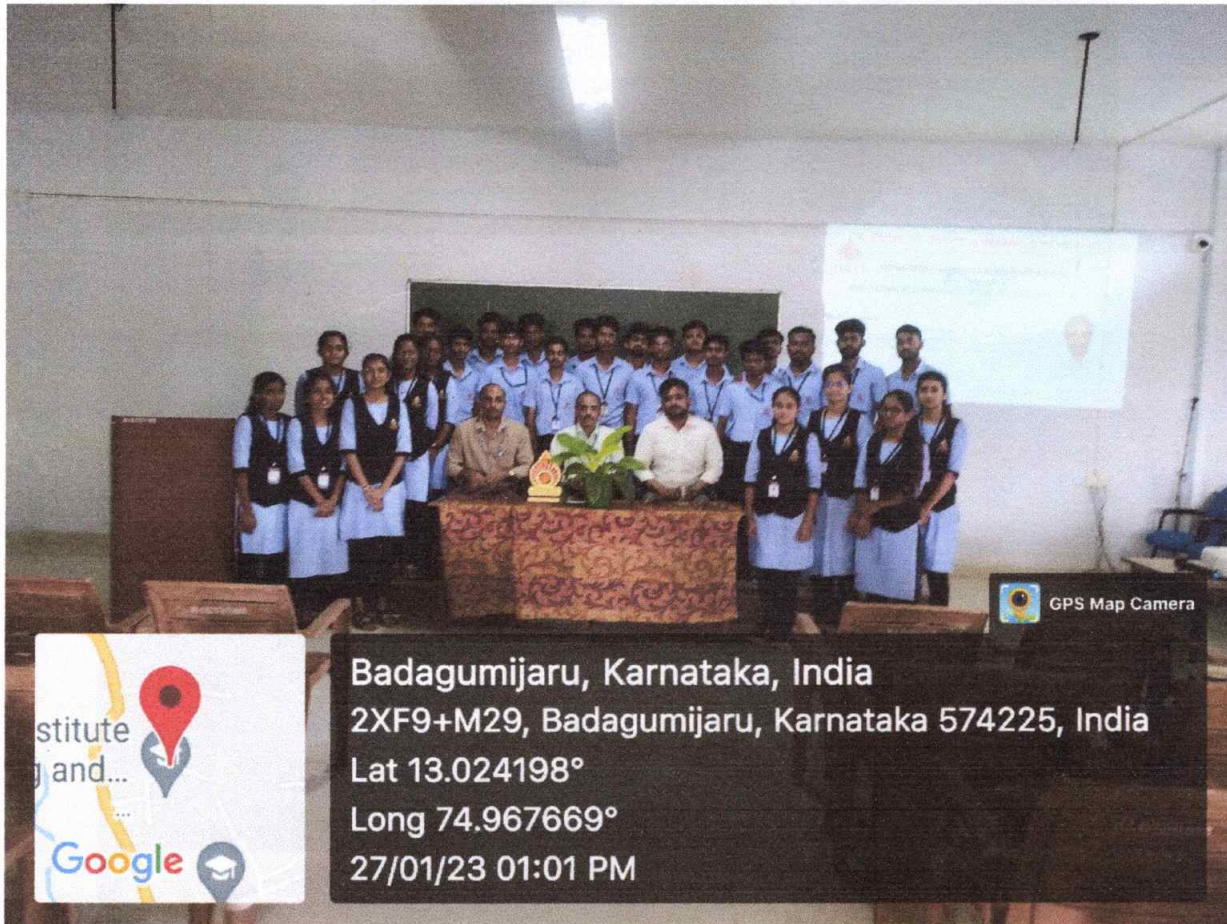
Department of Agricultural Engineering

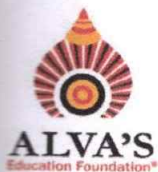
Technical Talk Report on Agrochemicals and Safety use of Pesticides in Plantation Crops

Objectives

To know the role of agrochemicals to increase the yield of crops and efficient and safety use of pesticide in plantation crops in India.

Report with geo tagged photos





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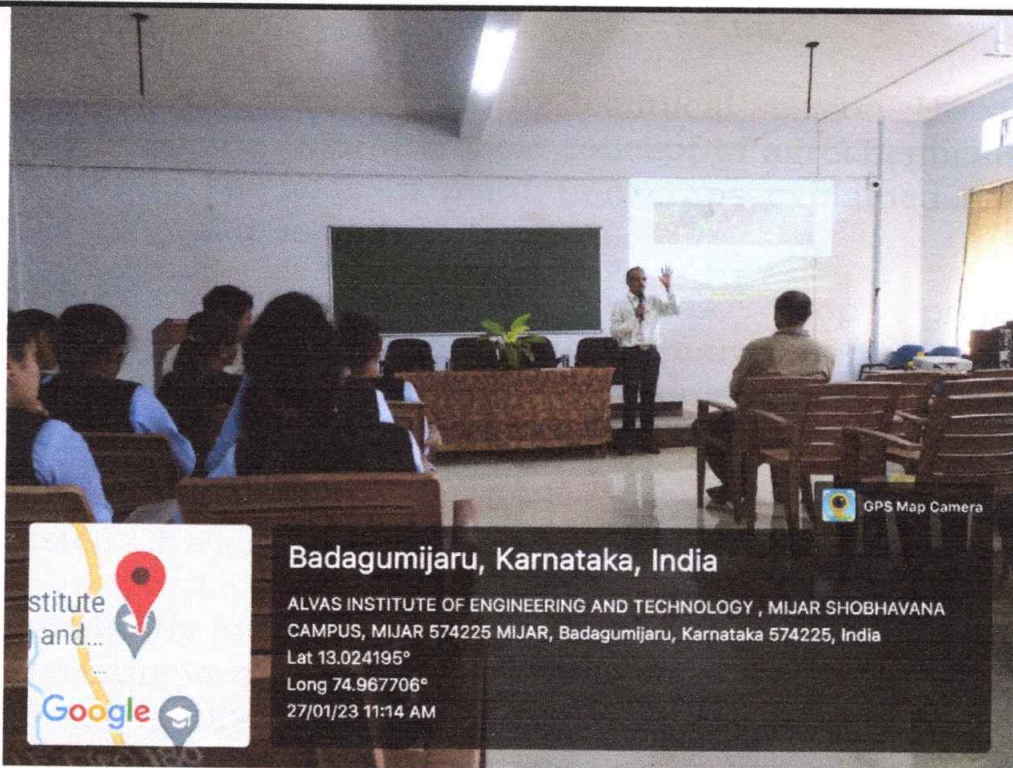
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Outcome of the event

Dr. Vinayak Hegde started the technical session. He started the session starting from the basic concept of agrochemicals and effective use of pesticide in plantation crops explained and his detailed explanation is given below.

Agrochemicals commonly referred as crop protection chemicals/pesticides are substances manufactured through chemical or biochemical processes containing the active ingredient in a definite concentration designed to protect crops from insects, diseases and weeds and eventually reduce crop losses.

The enlisted Challenges faced by the farmers in Indian Agriculture are

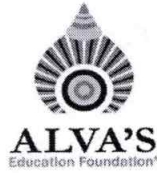
- Constantly increasing population,
- Declining arable land,
- Small landholdings,
- high monsoon dependency and
- declining soil fertility

Why do we need agrochemicals?

- ☐ Pests and diseases on an average eat away around 20-25% of the total food produced.
- ☐ India is losing agricultural production worth INR 1.48 lakh crores annually due to damage from pests, weeds and plant diseases.
- ☐ Overall food crops compete with around 30,000 species of weeds, 3,000 species of nematodes and 10,000 species of plant-eating insects.
- ☐ Agrochemical acts as key input for crop protection and better yield.

Agrochemicals Production in India

- India is the 4th largest producer of agrochemicals after United States, Japan and China.
- It is a net exporter of agrochemical and has emerged as the 13th largest exporter of pesticides globally.
- Indian Agrochemicals is about US\$ 5 billion exports contributing more than 50% share.



Agrochemicals types

Agrochemicals classified into

1. Insecticides
2. Fungicides
3. Herbicides
4. Biopesticides
5. Others - Fumigants, biostimulants, rodenticides

Plantation Crops in India

- Major Segment of Horticulture Crops : Coconut, Arecanut, Oil palm, Tea, Coffee, Rubber, Cashew, Cocoa
- Occupies less than 2 % of cultivated area but generates income of Rs. 16000 million or 12.7 % of total export earnings of all commodities or 75 % of total earnings from export of agricultural produces.
- Leads in production of tea, cashew, arecanut, coconut
- Provide direct and indirect employment and livelihood security to millions of people

Major Diseases of Coconut are

Bud rot

Basal stem rot

Root (wilt) disease

Stem Bleeding

Leaf blight

Major Pests of Coconut

Eriophyid mite

Rhinoceros beetle

Red palm weevil

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Leaf eating caterpillar

White grub

Plant protection measures are elaborated below.

Basal Stem Rot (*Ganoderma lucidum*)

1st stage: Wilting of leaflets (Not prominent)

Yellowing of leaves of lowest whorl

Decay and death of fine roots

2nd stage: bleeding patches appear at the base of the stem – extend upwards

Extensive root decay

No bunch formation

3rd stage: bleeding patches extend in the stem

Leaves in the outer whorl droop

Heavy button shedding, barren nuts

4th stage: leaves in the outer whorl dry and droop

Other leaves also droop except spindle leaf and surrounding 2 or 3 young leaves

At the end of the talk students come to know the importance of precise application of various agrochemicals are being used by the farmers in India. They also come to know the impact of indiscriminate application of some of the pesticides to the plantation crops and the safety precautions to be taken by the farmers while applying them to the crop.



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Shobhavana Campus, Mijar, Moodbidri, D.K - 574 225

Phone : 08258-262725, Fax:08258-262726

Date: 10-01-2023

From,
The HOD
Dept. of Agricultural Engineering
AIET, Moodabidri

To,
The Principal
AIET, Moodabidri

Respected sir,

Sub: Requisition for memento, honorarium and travel allowance -Reg.

With reference to the above cited subject, Department of Agricultural Engineering is going to host a **Technical Talk** on the topic of **Agrochemicals and Safety use of Pesticides in Plantation Crops** by a resource person **Dr. Vinayaka Hegde, Principal Scientist, Central Plantation Crops Research Institute, Kasaragod** on 27/01/2023 at 10:40 AM to 11:50 AM. In this regard, I kindly request you to guide the concerned to arrange a memento and also accept the budget requirement for honorarium and travel allowance of the kasaragod based resource person.

Honorarium- Rs. 2,500/-

Travel allowance-Rs. 1700/-

on Bill

Yours Faithfully,
Shashikumar
HOD

Shc

Shc
12/1/23

Shc



Alvas Institute Of Engineering & Technology Agriculture Dept <aietag08@aiet.org.in>

REQUESTING TO GIVE GUEST LECTURE & CONFIRM THE ACCEPTANCE OF OUR REQUEST

Alvas Institute Of Engineering & Technology Agriculture Dept <aietag08@aiet.org.in> Tue, Mar 7, 2023 at 2:12 PM
To: rrshetty2059@gmail.com

PFA

Thanks & Regards

Dr. Shashikumar

Associate Professor & Head

Department of Agricultural Engineering

ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY

Mijar, Moodabidre

Contact Number: 9113019074/9535912527



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भाकृअनुप-केन्द्रीय रोपण फसल अनुसंधान संस्थान
कासरगोड - 671124, केरल, भारत
ICAR-Central Plantation Crops Research Institute
Kasaragod 671124, Kerala, India
(An ISO 9001:2015 Certified Institution)



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Email: director.cpcr@icar.gov.in
director.cpcr@gmail.com
Website: <https://cpcr.icar.gov.in>

F No. 10/EA/2020-SS

Dated 12.01.2023

To

The Principal,
AIET, Moodbidri
Shobhavana Campus,
Mijar, Moodbidri-574225
email: aietag08@aiet.org.in
Mob : 08258262725

Sub: Delivering a Technical talk -reg.
Ref. Your e mail dated 11.01.2023.

Sir,

With reference to the above, the Competent Authority has nominated **Dr. Vinayaka Hegde, HoD, Crop Protection** (Contact- 9447245649 09480395649, email - vinayaka.hegde@icar.gov.in hegdev64@gmail.com) of CPCRI, Kasaragod. To handle the technical session in Plant Pathology on the topic "**Agrochemicals and Safety use of Pesticides in Plantation Crops**" on **27.01.2023 from 10.40 am to 11.50 am at AIET Shobhavana Campus, Mijar, Moodbidri.**

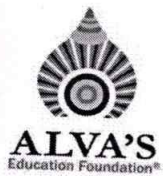
With regards,

Yours faithfully,

HoD (Social Science)

Copy to:

1. Dr. Vinayaka Hegde, HoD, Crop Protection, ICAR-CPCRI, Kasaragod
2. Dr. Shashikumar, Associate Professor & Head, Department of Agricultural Engineering, Alvas Institute Of Engineering & Technology, Mijar, Moodabidre -9113019074/9535912527



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Department of Agricultural Engineering

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DEPARTMENT OF AGRICULTURAL ENGINEERING

Technical talk on

AGROCHEMICALS AND SAFETY USE OF PESTICIDES IN PLANTATION CROPS

Resource Person

Dr. Vinayaka Hegde

Principal Scientist,

Central Plantation Crops Research Institute,

Kasaragod.



Venue: Civil Seminar Hall.

Date: 27/01/2023



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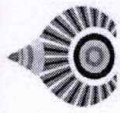
Internal Quality Assurance Cell (IQAC)

Department of Agricultural Engineering

Technical Talk

Student's details -

| Sl.No | USN | Student Name | Semester | Signature |
|-------|------------|-----------------------|----------|-----------|
| 1 | 4AL21AG001 | A BHOOMIKA REDDY | III | |
| 2 | 4AL21AG002 | ABHISHEK K S | III | |
| 3 | 4AL21AG003 | AJITH MALI PATIL | III | |
| 4 | 4AL21AG004 | AMARNATH I | III | |
| 5 | 4AL21AG005 | ANANYA K | III | |
| 6 | 4AL21AG006 | CHAITRA | III | |
| 7 | 4AL21AG007 | CHANDAN B M | III | |
| 8 | 4AL21AG008 | CHANDU S | III | |
| 9 | 4AL21AG009 | CHEETHAN P | III | |
| 10 | 4AL21AG010 | DEEPAK M S | III | |
| 11 | 4AL21AG011 | DEEPAK R | III | |
| 12 | 4AL21AG012 | H P Y SACHIN | III | |
| 13 | 4AL21AG013 | HAHEEL NIYAZ | III | |
| 14 | 4AL21AG014 | JEEVAN KUMAR H N | III | |
| 15 | 4AL21AG015 | K A PREKSHA | III | |
| 16 | 4AL21AG016 | KEERTHAN ALVA | III | |
| 17 | 4AL21AG017 | KEERTHANA M RAM | III | |
| 18 | 4AL21AG018 | KIRAN V | III | |
| 19 | 4AL21AG019 | MANASI ANILRAO PAPPAL | III | |



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| | | | | |
|----|------------|-------------------------|-----|-------------|
| 20 | 4AL21AG020 | MANSOOR P E | III | |
| 21 | 4AL21AG021 | MONISHA S | III | |
| 22 | 4AL21AG022 | NAGASHREE N | III | Nagashree N |
| 23 | 4AL21AG023 | NAVYA K | III | |
| 24 | 4AL21AG024 | POORNACHANDRA | III | |
| 25 | 4AL21AG025 | PRANEETH | III | P. A. 9d |
| 26 | 4AL21AG026 | REGAN AIDON SALDANHA | III | |
| 27 | 4AL21AG027 | SAHANA M GOWDA | III | |
| 28 | 4AL21AG028 | SANTHOSH M | III | Santhosh M |
| 29 | 4AL21AG029 | SAWAN SHETTY | III | |
| 30 | 4AL21AG030 | SHREEHARSHA K S | III | |
| 31 | 4AL21AG031 | SNEHA M | III | |
| 32 | 4AL21AG032 | SUSHA S SHETTY | III | |
| 33 | 4AL21AG033 | SUTHEEJ | III | |
| 34 | 4AL21AG034 | TARUN K | III | |
| 35 | 4AL21AG035 | TEJASKUMAR | III | |
| 36 | 4AL21AG036 | USAMA MEHABOOSAB KOPPAL | III | |

Total No. of students participated -

HOD

IQAC Coordinator

IQAC Chairman
Alva's Institute of Engg. & Technology,
Mijar. MOODEIDRI - 574 225, D.K



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Internal Quality Assurance Cell (IQAC)

Department of Agricultural Engineering

Technical Talk

Faculties details -

| Sl. | Faculty Name | Designation | Signature |
|-----|-----------------|------------------|-----------|
| 1. | Deepak Kolake | Asst. Professor. | |
| 2. | Dr. Shashikumar | Assoc. Professor | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Total No. of faculties participated -

Shashikumar
HOD

[Signature]
IQAC Coordinator

[Signature]
IQAC Chairman

Alva's Institute of Engg. & Technology
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Department of Agricultural Engineering

Feedback Form - Technical Talk

Name of the student: Preetha

Student USN: 4AL04A6015

Semester: III

Date of Technical Talk: 27/1/2021

Name of the Organization: AJET, Milan

Directions:

For each item please indicate your level of satisfaction by ticking the following statement by choosing a score between 1 and 5.

[Excellent - 5, Very Good - 4, Good - 4, Average - 2, Below Average - 1]

| Sl. No. | Statement | 5 | 4 | 3 | 2 | 1 |
|---------|--|---|---|---|---|---|
| 1. | The Technical Talk was technology oriented | 5 | | | | |
| 2. | The Technical Talk was applicable to your future needs | | 4 | | | |
| 3. | Technical Talk is enhanced your skills | | | 3 | | |
| 4. | The program was well placed within the allotted time | | 4 | | | |
| 5. | The Technical Talk delivered skill of a resource person | 5 | | | | |
| 6. | The material was presented in an organized manner | | 4 | | | |
| 7. | would you interested in attending such talks in future | | | 3 | | |
| 8. | Any suggestions for further improvement : <u>The talk delivered by a resource person was excellent & i request you to conduct the same in future days</u> | | | | | |

Preetha
Signature of the student