



AKSHAYA INSTITUTE OF TECHNOLOGY
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Koratagere Road, Tumakuru - 572 106, Karnataka
**DEPARTMENT OF AGRICULTURAL ENGINEERING
AND SMART AGRITECH**



TECHNICAL TALK REPORT

ON

“FOUNDATION OF AGRICULTURE: FROM AGRONOMY TO AGROCHEMICALS”

Organized

By

**Department of Agricultural Engineering and Smart Agri-Tech
Akshaya Institute of Technology, Tumkur**

Date of Technical talk: 28th October 2024

**Venue: Department of Agricultural Engineering and Smart Agri-Tech
Akshaya Institute of Technology, Tumkur**

TECHNICAL TALK REPORT
ON
“FOUNDATION OF AGRICULTURE: FROM AGRONOMY TO AGROCHEMICALS”

1. Introduction

A technical talk on “Foundation of Agriculture: From Agronomy to Agrochemicals” was organized on **28th October 2024** by the Department of Agricultural Engineering and Smart Agri-Tech, Akshaya Institute of Technology, Tumkur. The session was arranged as part of the course work for the subjects Principles of Agronomy and Basic Concepts and Applications of Agrochemicals for the **3rd and 5th semester** students of both Agricultural Engineering and Smart Agri-Tech programs.

2. Objective of the technical talk

The main objective of this talk was to provide students with a strong foundation in the basic principles of agronomy and to create awareness about the scientific and responsible use of agrochemicals in sustainable agricultural production. The session aimed to bridge the knowledge gap between traditional farming practices and modern scientific approaches, enabling students to understand the interrelationship between crop science, soil management and agrochemical applications.

3. Details of the session

The session began with a formal welcome address by the faculty coordinators, followed by an introduction of the resource person. The talk was delivered by **Dr. Jayadev H. M.**, Professor, Department of Agronomy. During the presentation, the speaker discussed the evolution and scope of agronomy, explaining how it serves as the backbone of agricultural science. Topics such as soil-plant-climate relationships, principles of crop production, cropping systems and modern agronomic practices were elaborated upon.

The speaker further explained the role of agrochemicals including fertilizers, pesticides, herbicides and plant growth regulators in increasing agricultural productivity. Emphasis was placed on the classification, formulation and safe use of agrochemicals, along with integrated pest and nutrient management (IPM and INM) techniques.

4. Highlights of the session

- Introduction to the foundations of agronomy and its importance in scientific crop managements.
- Discussion on types and roles of agrochemicals in modern agriculture.
- Emphasis on balanced fertilizer use and soil fertility management.
- Case studies on sustainable farming and precision agriculture techniques.
- Demonstration of safe handling, storage and disposal practices for agrochemicals.
- Interactive Q&A session where students discussed real-life agricultural problems.

5. Outcomes of the technical talk

The talk was highly beneficial for students, providing them with practical insights into how agronomy and agrochemicals work hand-in-hand in improving agricultural efficiency. It helped them understand the scientific basis for crop production, the economic and environmental implications of agrochemical use and the need for sustainable management of natural resources. Students actively participated by sharing their observations and experiences from the field. The session encouraged critical thinking and motivated them to adopt innovative approaches in future agricultural practices.

6. Conclusion

The technical talk concluded with a vote of thanks, expressing gratitude to the resource person, faculty coordinators and the management of Akshaya Institute of Technology, Tumkur, for organizing such an enlightening session. The event successfully enhanced the students' understanding of the fundamentals of agronomy and the judicious use of agrochemicals, aligning with the institution's goal of producing technically competent and environmentally responsible agricultural professionals.

7. Faculty coordinators

1. **Dr. Vikas L**, Assistant Professor and Head, Department of Agricultural Engineering.
2. **Dr. Chandrashekar**, Assistant Professor and Head, Department of Smart Agri-Tech.
3. **Dr. Chethan B. J.** (Convener), Assistant Professor, Department of Agricultural Engineering.
4. **Dr. Vinayakumar M.**, Assistant Professor, Department of Agricultural Engineering.

8. Photography (as to be attached)

1. Technical session and Flyer

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DEPARTMENT OF AGRICULTURAL ENGINEERING AND SMART AGRITECH

TECHNICAL TALK ON

**Foundations of Agriculture:
 From Agronomy to
 Agrochemicals**

Speaker: **Dr. JAYADEVA, H. M.**
 Professor
 Department of Agronomy
 College of Agriculture, UAS, GKVK, Bengaluru

COORDINATOR
Dr. VINAY KUMAR M
 Assistant Professor,
 Department of Agricultural Engineering

CONVENER
Mr. CHETHAN B J
 Assistant Professor,
 Department of Agricultural Engineering

HEAD
Mr. VIKAS L
 Department of Agricultural Engineering

HEAD
Dr. CHANDRASHEKAR
 Department of Smart Agri-Tech

VENUE
 LH 401,
 DEPARTMENT OF AGRICULTURAL
 ENGINEERING AND SMART AGRITECH

**OCTOBER 28, 2024
 2.00 PM**

ALL ARE CORDIALLY INVITED 🙏

2. Faculty with resource person



3. Group photo of students and faculties with resource person



Chethan. B. J.

Dr. Chethan B J

Assistant Professor (Coordinator)

Department of Agricultural Engineering

Vikas L

Dr. Vikas L

Associate Professor and Head

Department of Agricultural Engineering

Chandrashekar

Dr. Chandrashekar

Assistant Professor and Head

Department of Smart Agri-Tech