



AKSHAYA INSTITUTE OF TECHNOLOGY
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Recognized by Govt. of Karnataka Obalapura Post, Lingapura,
Koratagere Road, Tumakuru - 572 106, Karnataka
**DEPARTMENT OF AGRICULTURAL ENGINEERING
AND SMART AGRITECH**



TECHNICAL TALK REPORT

ON

“EMERGING TRENDS AND TECHNOLOGIES IN FARM MECHANIZATION”

Organized by

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

Date of Technical Talk: 29th September 2025

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

TECHNICAL TALK REPORT

ON

“EMERGING TRENDS AND TECHNOLOGIES IN FARM MECHANIZATION”

1. Introduction

A technical talk on “**Emerging Trends and Technologies in Farm Mechanization**” was organized by the Department of Agricultural Engineering and Smart Agri-Tech, on 29th September 2025 at Akshaya Institute of Technology, Tumkur, as part of the course work for **Farm Machinery and Equipment-I and Farm Machinery and Equipment-II**. The session was attended by the students of 3rd, 5th and 7th semesters of Agricultural Engineering and 5th and 7th semesters of Smart Agri-Tech programs.

2. Resource Person Details

Dr. G. C. Jayashree

Assistant Professor and Head,

Department of Farm Machinery and Power Engineering (FMPE)

COE, UAS, GKVK, Bengaluru

3. Objective of the Technical Talk

The objective of this technical talk was to **provide students with practical insights into the latest developments, trends and technologies in farm mechanization** and to enhance their understanding of how modern machinery contributes to sustainable and efficient agricultural production.

4. Key Points Covered

During the session, Dr. Jayashree discussed key topics such as:

1. Recent innovations in farm machinery design and automation.
2. Role of ICT, IoT and AI in smart agriculture and precision farming.
3. Advances in energy-efficient and environment-friendly farm equipment.
4. Use of drones, sensors and robotics in agricultural operations.
5. Importance of mechanization for small and marginal farmers.

She also emphasized the need for adopting emerging technologies to improve productivity, reduce drudgery and optimize resource utilization in agriculture. The talk helped students relate theoretical knowledge with real-world applications and understand the scope for research and innovation in the field of Farm Machinery and Power Engineering.

5. Outcomes / Learning

The session helped students understand emerging trends and their real-world applications. It bridged the gap between theory and practice, motivating students to explore research and innovation opportunities in the field of farm mechanization.

6. Faculty Coordinators / Organizers

- **Dr. Vikas L**, Assistant Professor and Head, Department of Agricultural Engineering
- **Dr. Chandrashekar**, Assistant Professor and Head, Department of Smart Agri-Tech
- **Dr. Chethan B.J.** Assistant Professor, Department of Agricultural Engineering
- **Dr. Manoj D**, Assistant Professor, Department of Agricultural Engineering
- **Dr. Sadashivanagowda S.N.O**, Assistant Professor Dept. of Agricultural Engineering

7. Conclusion

The session concluded with an interactive discussion where students actively participated and clarified their doubts. The event provided valuable exposure and motivated students to explore advancements in farm mechanization and contribute to the future of smart and-sustainable-agriculture.

8. Photographs (to be attached)

1. Technical Talk flyer

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DEPARTMENT OF AGRICULTURAL ENGINEERING AND SMART AGRITECH

TECHNICAL TALK ON
"Emerging Trends and Technologies in Farm Mechanization"

Speaker: **Dr. G.C. Jayashree**
Assistant Professor & Head
Department of FMPE
COAE UAS, GKVK, Bengaluru

PATRONS

- Dr. Shivakumar K S**
Hon'ble Chairman, AET, Tumkur
- Dr. Shobha S**
Hon'ble Secretary, AET, Tumkur
- Dr. Yathisha L**
Principal, AIT, Tumkur

COORDINATOR

- Dr. VIKAS L**
Associate Prof. and Head
Department of Agricultural Engineering
- Dr. CHANDRASHEKAR**
Asst. Prof., Dept. of Smart Agritech.

CONVENER

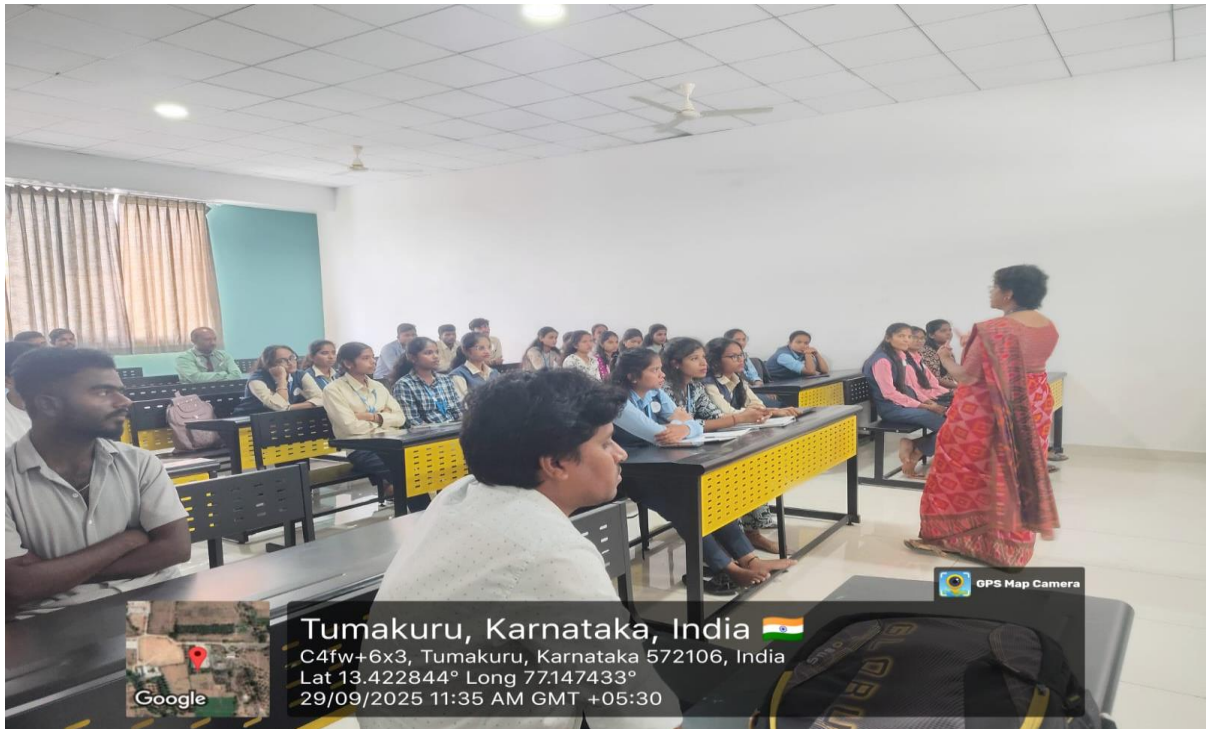
- Dr. CHETHAN B J**
Asst. Prof., Dept. of Agril. Engg.
- Dr. Manoj D**
Asst. Prof.
Department of Agricultural Engineering
- Dr. SADASHIVANAGOWDA S N O**
Asst. Prof., Dept. of Agril. Engg.

SEPTEMBER 29, 2025
11.00 AM

VENUE
LH 401,
DEPARTMENT OF AGRICULTURAL
ENGINEERING AND SMART AGRITECH

ALL ARE CORDIALLY INVITED

2. Technical talk sessions photo



3. Department faculties with resource person



4. Group photo of students, department faculties and resource person



Chethan. B. J.

Dr. Chethan B J

Assistant Professor (Coordinator)
Department of Agricultural Engineering

Vikas

Dr. Vikas L

Associate Professor and Head
Department of Agricultural Engineering

Chandrashekar

Dr. Chandrashekar

Assistant Professor and Head
Department of Smart Agri-Tech