



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

“EMERGING TECHNOLOGIES IN FOOD PROCESSING”

Organized

By

Department of Agricultural Engineering and Smart Agri-Tech

Akshaya Institute of Technology, Tumkur

Date of Technical Talk: 19th September 2025

Venue: Department of Agricultural Engineering and Smart Agri-Tech

Akshaya Institute of Technology, Tumkur

TECHNICAL TALK REPORT
ON
“EMERGING TECHNOLOGIES IN FOOD PROCESSING”

1. Introduction

Department of Agricultural Engineering and Smart Agri-Tech, Akshaya Institute of Technology, Tumkur Organized a Technical Talk on “**Emerging Technologies in Food Processing**” on 19-09-2025. Students from 3rd, 5th, and 7th semesters of Agricultural Engineering and 5th and 7th semesters of Smart Agri-Tech actively participated in the technical talk.

2. Objective of the Talk

The objective of the technical talk was to enhance the students’ understanding of emerging technologies in food processing and to provide them with practical exposure to the latest advancements, techniques and equipment used in the food industry. The session aimed to bridge the gap between theoretical learning and industrial applications, thereby preparing students for careers in food process engineering and technology-driven agribusiness sectors.

3. Resource Person

Dr. Hanmanthraju K. N.

Assistant Professor,

Department of Food Technology, FLASH,

M. S. Ramaiah University, Bengaluru.

4. Faculty Coordinators:

- Dr. Vikas L, Associate Professor & Head, Department of Agricultural Engineering.
- Dr. Chandrashekar, Assistant Professor& Head, Department of Smart Agri-Tech.
- Dr. Chethan B. J. Assistant Professor, Department of Smart Agri-Tech.

5. Highlights of the Session:

Dr. Hanmanthraju K. N. delivered an informative and interactive lecture covering the following key areas:

- Introduction to modern food processing technologies and their relevance in sustainable food production.

- Non-thermal processing techniques such as high-pressure processing, pulsed electric fields and ultrasound-assisted processing.
- Automation and digitalization in food industries, including the role of IoT, AI and machine learning in process control and quality monitoring.
- Advances in food preservation and packaging technologies, emphasizing minimal processing and nutrient retention.
- Waste minimization and value addition approaches in food industries for achieving circular economy goals.
- The role of food safety standards and regulatory compliance in the processing sector.
- The speaker also discussed career opportunities in food processing and emphasized the importance of continuous innovation and entrepreneurship in addressing the growing demand for safe, nutritious and convenient food products.

6. Outcome of the Program:

- Students gained valuable insights into the latest technological developments in food processing industries.
- They understood the importance of modern automation tools in improving food quality, safety and efficiency.
- The talk helped students connect theoretical knowledge with industrial applications, enhancing their technical and analytical skills.
- The session motivated students to explore research and startup opportunities in the field of food technology.

7. Feedback:

Participants appreciated the clarity, practical relevance and engaging delivery of the talk. Many expressed that the session inspired them to pursue advanced studies and innovative projects related to food processing technologies.

8. Conclusion:

The technical talk on “Emerging Technologies in Food Processing” was highly beneficial and successfully achieved its objectives. The Department of Agricultural Engineering and Smart Agri-

Tech expressed sincere gratitude to Dr. Hanmanthraju K. N. for sharing his expertise and to all faculty members for their efforts in organizing this insightful event.

9. Photography (as to be attached)

1. Technical Talk Flyer

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DEPARTMENT OF AGRICULTURAL ENGINEERING AND SMART AGRITECH

TECHNICAL TALK ON
“Emerging Technologies in Food Processing”

Speaker: Dr. Hanmanthraju, K. N.
Assistant Professor
Department of Food Technology, FLAHS
M S Ramalah, University, Bangalore

PATRONS

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

COORDINATOR

- Dr. VIKAS L
Associate Prof. and Head
Department of Agricultural Engineering
- Dr. Manoj D
Asst. Prof.
Department of Agricultural Engineering

CONVENER

- Dr. CHETHAN B J
Asst. Prof., Dept. of Agril. Engg.
- Dr. CHANDRASHEKAR
Asst. Prof., Dept. of Smart Agritech.
- Dr. Sadashivanagowda S N O
Asst. Prof., Dept. of Agril. Engg.

SEPTEMBER 19, 2025
11.00 AM

VENUE
LH 401,
DEPARTMENT OF AGRICULTURAL
ENGINEERING AND SMART AGRITECH

ALL ARE CORDIALLY INVITED

2. Faculties with Resource Person



3. Group photo of students, faculties and 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