



Integral Institute of Agricultural Science & Technology (IIAST) **Integral University, Lucknow**

Brief report on
Guest lecture on the topic "Advanced mechanization for sugarcane crop production"
Organized by Department of Agriculture,
Integral Institute of Agricultural Sciences and Technology IIAST,
Integral University

The Department of Agriculture, Integral Institute of Agricultural Science & Technology (IIAST), Integral University, Lucknow organized a Guest lecture on the topic "Advanced mechanization for sugarcane crop production". The lecture was delivered by Dr. Sukhbir Singh, Principal Scientist, Division of Agricultural Engineering, ICAR-IISR (ICAR-Indian Institute of Sugarcane Research), Lucknow on October 30, 2023 at 11:00 A.M. in the Seminar Hall, Department of Agriculture, IIAST. Dr. Sukhbir Singh, Senior Scientist at the ICAR-Indian Institute of Sugarcane Research has enlightened the students on various topics related to farm mechanization. He is an eminent scientist with specialization in farm engineering and mechanization. His basic focus area of work had been mechanized operation of farms both in plains and hilly regions. He is conferred with prestigious awards for revolutionizing the contemporary farming system.

The Guest was welcomed by Prof. Saba Siddiqui, Head, Department of Agriculture, IIAST, Integral University, Lucknow. Then the students were introduced to the fundamentals of sugarcane cultivation, emphasizing its importance as a cash crop and its significance in the agricultural industry. He discussed at length the challenges faced by sugarcane farmers, such as labor shortages, rising production costs and the need for sustainable farming practices. Dr. Singh emphasized on the pivotal role of mechanization in addressing these challenges, discussing how modern Agricultural machinery and equipment have revolutionized sugarcane farming. This discussion included an overview of various types of machinery used in sugarcane cultivation, such as tractors, harvesters, planters and irrigation systems as well their roles in different stages of production. Precision farming, data-driven agriculture and sustainable practices have also been focal points, highlighting the role of technology and automation in optimizing crop management while reducing environmental impact. The lecture has delved into economic considerations, including initial investment costs and long-term benefits for farmers. Sharing case studies and success stories from mechanized sugarcane farms he provided practical insights.



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Dr. Singh concluded his lecture by discussing emerging trends and future developments in sugarcane production mechanization, encouraging students to stay updated on advancements in the field. This comprehensive lecture aimed to educate students about the transformative potential of advanced mechanization in sugarcane crop production.

The students of Undergraduate and Postgraduate Programmes of the Department of Agriculture, IIAST, attended the lecture. Thereafter question and answer session was done with the view to bring the clarity about the emerging trends in farm mechanization. This lecture was coordinated and moderated by Dr. Zeeshan Ahmed Khan, Assistant Professor, IIAST.

Glimpses of guest lectures





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Advanced Mechanization for Sugarcane
Crop Production

Dr. Subhoj Singh
Principal Scientist (ISST)
ICAR Indian Institute of Sugarcane Research,
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