



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

**A guest lecture on “Advanced Techniques in Mango Production”
on the occasion of International Seeds day
26th April 2021**

Department of Agriculture, IIAST organize a guest lecture on Advance Techniques in mango Production on 26th April 2021 through virtual mode. Lucknow's status as a mango growing region underscores the importance of mango cultivation in the local economy and cultural heritage, making it a key contributor to the city's agricultural landscape and identity. Therefore, advance techniques in mango production is the most relevant topic for knowledge gaining. The lecture focused on the latest advanced techniques in mango production to improve yields, quality, and sustainability. We are honored to have Dr. Mohd. Feza Ahmad, Professor, Department of Horticulture and Associate Director Research, BAU Sabour, Bhagalpur, Bihar. The program begin with the welcome address by Dr. Saba Siddiqui, Head, Department of Agriculture.

Dr. Ahmad began by highlighting the economic and nutritional importance of mangoes as one of the most widely consumed tropical fruits globally. He emphasized the need for adopting modern agricultural practices to meet the rising demand while addressing challenges such as climate change, water scarcity, and pest/disease pressures.

One of the key techniques discussed was high-density planting, which involves planting mango trees at closer spacing compared to traditional orchards. This approach maximizes land use efficiency and can lead to earlier fruiting and higher yields per unit area. He explained the importance of proper canopy management through pruning and training techniques to ensure adequate light penetration and air circulation within the high-density orchards. The lecture also covered the role of precision farming and sensor technologies in optimizing resource utilization and improving crop management. He also discussed how soil moisture sensors, weather stations, and remote sensing data can be used to make informed decisions regarding irrigation scheduling, fertilizer application, and pest/disease monitoring. This data-driven approach can lead to significant water and input savings while enhancing productivity and sustainability.

He discussed techniques such as pheromone traps, bio-control agents, and targeted application of eco-friendly pesticides to minimize environmental impact while maintaining crop health. The lecture also touched upon postharvest handling and value addition techniques to reduce losses



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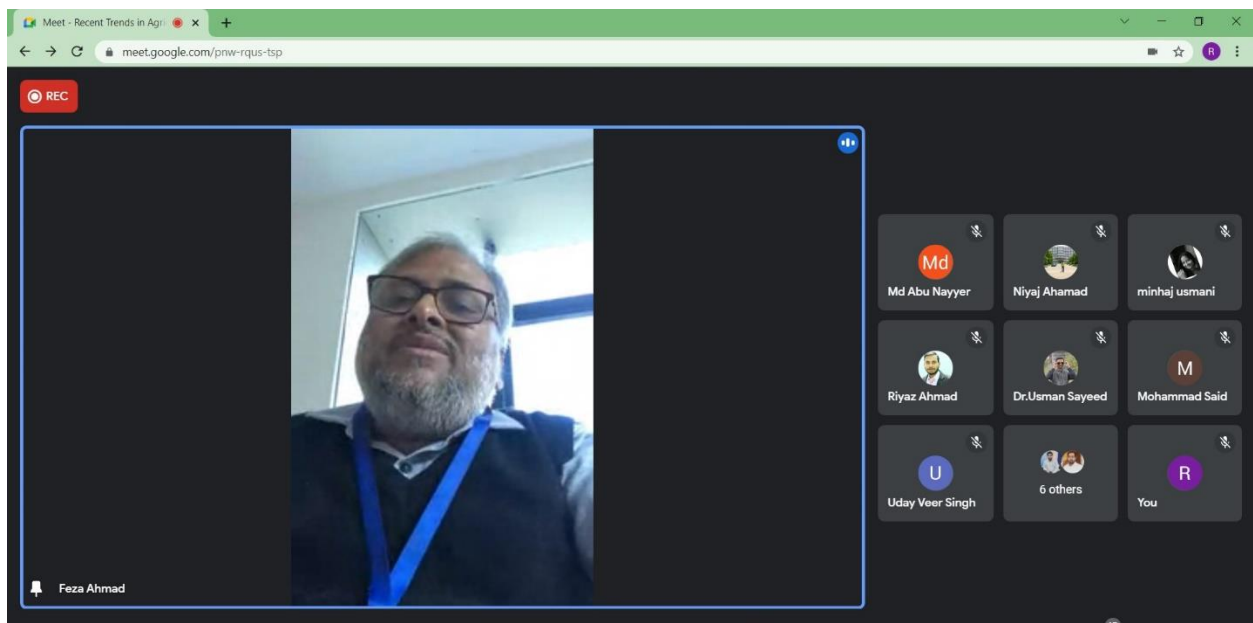
and increase profitability. The use of modern packaging materials, cold chain management, and processing technologies such as drying, juicing, and freeze-drying to extend the shelf life and create value-added mango products were also discussed.

The lecture was well-attended by students, faculty members. It provided valuable insights into the latest advancements in mango production and encouraged the adoption of sustainable and innovative practices. The Q&A session at the end allowed attendees to clarify their doubts and engage in discussions on specific challenges faced in their regions.

Overall, the guest lecture was highly informative and highlighted the importance of embracing advanced techniques to enhance the productivity, quality, and profitability of mango cultivation while promoting environmental sustainability.

Approximately 50 undergraduate students of Agriculture attended the lecture, and Dr. Feza Ahmad adeptly addressed all their queries, further enriching their understanding of the subject matter. The audience found the lecture highly informative and pertinent to their studies. The event concluded with a vote of thanks, highlighting the active support and collaboration of all department members in organizing the successful program.

Glimpse





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