



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

**Report
on
Guest Lecture on Vertical farming of Mushroom
Organized by
Department of Agriculture
September 15, 2022**

The Department of Agriculture at the Integral Institute of Agricultural Science and Technology (IIAST) hosted a guest lecture with the goal of educating attendees about new developments in the area and offering insights into the most recent developments in agriculture. Mr. Sagar Chandra, Mushroom Training Centre, Kapoorthala visit us on September 15th, 2022, for an insightful guest lecture on " Vertical farming of Mushroom". Dr. Saba Siddiqui, Head, Department of Agriculture, cordially welcomed the lecturer on September 15, 2022, at 12:00 p.m. in the Seminar Hall. Dr. Siddiqui urged everyone to participate in the event, which promised to provide insightful information on both the potential transformative power of contemporary methods and traditional agricultural practices.

The lecture began with an overview of the current challenges facing traditional mushroom farming operations, such as space constraints, environmental impacts, and resource inefficiencies. He then introduced the concept of vertical farming as a potential solution, highlighting its ability to significantly increase yields while reducing the overall environmental footprint through the use of cutting-edge, sustainable practices.

Mr. Chandra provided a comprehensive look at the ideal conditions required for optimal mushroom growth, including precise control over temperature, humidity, airflow, and lighting. They explained how vertical farming facilities are uniquely equipped to maintain and optimize these micro-climates within a closed, indoor environment.

Mr. Chandra supported these concepts with insightful case studies showcasing real-world examples and addressing both the notable benefits and potential drawbacks of vertical mushroom farming. Key advantages included higher production yields, reduced water usage and emissions, and year-round supply capabilities. However, the significant upfront capital costs for equipment and facilities were cited as a major challenge. Throughout the lecture, Mr. Chandra reinforced the importance of sustainable agriculture practices and the pivotal role that vertical farming could play in meeting future food demands. Their expertise and passion for the subject matter made for an engaging presentation.



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In closing statements, he expressed optimism about the continued research and development in this burgeoning field, noting the vast opportunities ahead as vertical farming operations achieve greater scales of efficiency and output.

Overall, the guest lecture provided our class with invaluable insights into this cutting-edge area of agriculture technology. We are grateful to Mr. Chandra for generously sharing his valuable time and knowledge on this fascinating topic. Addressing the audience, Dr. Saba Siddiqui, Head of the Department of Agriculture at IIAST, Integral University, emphasized the importance of utilizing such platforms for knowledge acquisition. She highlighted the significance of research discussions within these forums.

The guest lecture concluded with a vote of thanks delivered by Dr. Faria Fatima. The guest lecture was meticulously organized by the members of the RAWI committee, including Dr. Malik Mobeen, Mr. Nadeem Khan, Dr. Faria Fatima, Dr. Khalid Habib, Dr. Sunil Kumar, and Dr. Ayush Bhushan, under the guidance of Prof. Mohd. Haris Siddiqui, Dean of the Faculty of Agricultural Science and Technology, and Dr. Saba Siddiqui, Head of the Department of Agriculture.



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Glimpse

