

## Report on Educational Visit of Students of B.Sc. (Hons) Agriculture 3rd Year to Remote Sensing Applications Centre (RSAC-UP), Kursi Road, Lucknow, on 27<sup>th</sup> August 2025.

The Department of Agriculture, Integral Institute of Agricultural Science and Technology (IIAST) organized an educational visit for the B.Sc.(Hons) Agriculture 3rd Year students to the **Remote Sensing Applications Centre (RSAC-UP), Kursi Road, Lucknow, on 27th August 2025.** The primary focus of visit was to provide students with practical knowledge of remote sensing, GIS and their applications in Agriculture and allied sectors.

The visit was observed under the guidance of Prof. (Dr.) Mohd Haris Siddiqui, Dean, Faculty of Agricultural Science and Technology, and Prof. Saba Siddiqui, Head, Department of Agriculture, IIAST. The students were accompanied by faculty coordinators Dr. Usman Sayeed, Dr. Nitish Kumar and supporting staff Mr. Suraj Awasthi who ensured smooth coordination throughout the visit.

The program began with an introductory session conducted by **Dr. Sudhakar Shukla, Head of the School of Geoinformatics, RSAC-UP**, followed by a technical lecture delivered by **Mr. Narendra Kumar, Head Division of Agriculture**. Both experts enlightened the students with in-depth knowledge about remote sensing technology and its significance in present-day agriculture. They explained the concept of Indian Remote Sensing (IRS) satellites, the different types of resolution such as spatial, spectral, temporal, and radiometric, and the basic principles of remote sensing.

The sessions also highlighted the wide range of applications of remote sensing in Agriculture and allied sectors. Students learned how satellite-based data is useful for crop monitoring, yield forecasting, drought management, soil mapping, and natural resource management. Special emphasis was placed on the role of remote sensing in precision agriculture, which helps optimize inputs like water, fertilizer and pesticides to achieve higher productivity in a sustainable manner.

The students also visited to the RSAC laboratories, they observed practical demonstrations of GIS applications, satellite imagery interpretation, and data analysis techniques. This exposure allowed them to connect their theoretical knowledge with real-world applications. The laboratory visit generated great interest among students and deepened their understanding of modern agricultural technologies.

At the end an interactive session was conducted where students asked questions and received clarifications on various topics. To further engage them, a quiz competition based on GIS and remote sensing was organized. Students were divided into two groups, and the quiz activity enhanced their enthusiasm, teamwork, and learning experience.

Overall, the educational visit to RSAC-UP proved to be a highly enriching experience. It not only expanded the students' knowledge about remote sensing technologies but also provided valuable insights into their practical applications in agriculture. The students appreciated the opportunity to interact with experts in the field, and the Department of Agriculture, IIAST, expressed sincere gratitude to Dr. Sudhakar Shukla and Mr. Narendra Kumar for their valuable guidance and support.

## Glimpses of Event







