

Brief Report on Expert Lecture: “Rooftop Rainwater Harvesting System” Organised by the Department of Civil Engineering, Integral University, Lucknow on 23rd July 2024.

The Department of Civil Engineering, Integral University, Lucknow hosted an expert lecture on "Rooftop Rainwater Harvesting System" on 23rd July 2024. This event was organized in response to directives from the Higher Education Department of the Government of Uttar Pradesh, which had mandated all higher education institutions to participate in the "Catch the Rain" initiative as part of Jal Shakti Abhiyan 2024.

The "Catch the rain" campaign aims to promote water conservation and sustainable water management practices, particularly focusing on the harvesting of rainwater. With water scarcity becoming an increasingly pressing issue, the campaign emphasizes the importance of utilizing rooftop rainwater harvesting systems as an effective solution.



Prof. Syed Aqeel Ahmad, Head of the Department of Civil Engineering, extended a warm welcome to the guest speaker, **Er. Alok Kumar Sinha, Chief Engineer, Irrigation Department, Government of Uttar Pradesh**. Floral welcome was given to him at the beginning of lecture.

During the lecture, Mr. Sinha discussed various aspects of rooftop rainwater harvesting systems. They highlighted the technical components involved, such as catchment areas, gutters, downspouts,

filtration systems, and storage tanks. The discussion also covered the design and installation processes, emphasizing the need for proper planning and maintenance to ensure the system's efficiency and longevity.

One of the key points addressed was the potential benefits of implementing rooftop rainwater harvesting systems. These systems not only provide a supplementary water source but also help in reducing the dependency on groundwater and municipal water supplies. By capturing and storing rainwater, these systems contribute to groundwater recharge, alleviate urban flooding, and promote the sustainable use of water resources.

The experts also presented case studies showcasing successful implementations of rooftop rainwater harvesting systems in various regions. These examples demonstrated how such systems can be tailored to suit different building types and local conditions, making them a versatile and adaptable solution for water conservation.

In addition to the technical aspects, the lecture underscored the importance of community involvement and awareness in promoting rainwater harvesting. Educational initiatives and community engagement are crucial in fostering a culture of water conservation. The speakers encouraged students and faculty members to become ambassadors for water sustainability, advocating for the adoption of rainwater harvesting practices within their communities.

The event concluded with an interactive session where attendees had the opportunity to ask questions and seek further clarification on the topics discussed. This session facilitated a lively exchange of ideas and experiences, reinforcing the collaborative spirit essential for addressing water scarcity challenges.

The "Catch the Rain" initiative under Jal Shakti Abhiyan 2024 represents a significant step towards sustainable water management in Uttar Pradesh. By organizing expert lectures and promoting awareness about rooftop rainwater harvesting systems, higher education institutions like Integral University play a pivotal role in driving this mission forward. The collective efforts of government bodies, educational institutions, and communities are crucial in ensuring the success of such initiatives, ultimately contributing to a more water-secure future.

A total of 46 students, faculty members, and staff members attended the expert lecture. The event was coordinated by Mr. Md Sajid, Assistant Professor in the Department of Civil Engineering at Integral University, Lucknow. At the end, a University memento was also presented to guest speaker.

The event concluded with a vote of thanks delivered by Mr. Vikash Singh, Assistant Professor in the Department of Civil Engineering at Integral University, Lucknow.

