

## Report on Guest Lecture on “Concrete Mix Design” organized by Department of Civil Engineering on 14<sup>th</sup> November 2024

The Department of Civil Engineering at Integral University, Lucknow, organized an expert lecture on November 14, 2024, focusing on the topic “Concrete Mix Design.” The event was conducted in collaboration with UltraTech Cement and took place at the Seminar Hall, Block-F, Department of Civil Engineering. The primary objective of the lecture was to provide students with valuable insights into the importance and process of the mix design method, while also highlighting the various factors that influence the properties of concrete mix designs.



A total of 56 students from both the B.Tech and M.Tech programs attended the session. The event commenced with a warm welcome extended to the guest from UltraTech Cement. Dr. Syed Aqeel Ahmad, Professor & Head, Department of Civil Engineering, presented a bouquet to the guest speaker, Mr. Sunil Sharma, Plant Head of the Ready Mix Concrete Division at UltraTech Cement.

During the lecture, Mr. Sharma elaborated on the procedure for concrete mix design and provided detailed explanations of both the old and new versions of code of mix design. He also discussed the philosophy behind the mix design procedure and the data provided in the codes. Furthermore, he highlighted various concrete distresses caused by factors such as chloride ingress, alkali-aggregate reactions, sulphate attacks, and severe weather conditions, among others.





To make the session more interactive, Mr. Sharma demonstrated the mix design process through a practical exercise. The session concluded with a lively question-and-answer session, where students had the opportunity to directly engage with the expert. The insightful responses provided by Mr. Sharma were highly appreciated by the attendees.

The event was successfully coordinated by Mr. Vikash Singh, Assistant Professor, Department of Civil Engineering, Integral University. At the close of the session, Mr. Mohd Asim, Assistant Professor, Department of Civil Engineering, Integral University, expressed gratitude to the dignitaries from UltraTech Cement for their invaluable support in organizing the event. He also extended his thanks to Prof. Aqeel Ahmad for his constant motivation and support, as well as to the students for their enthusiastic participation throughout the session.

