



## **Report on Guest Lecture Conducted on Environment Friendly and Economical concrete using Ground Granulated Blast Furnace Slag (GGBS)**

The Department of Civil Engineering organized a Guest Lecture on Environment Friendly and Economical concrete using Ground Granulated Blast Furnace Slag (GGBS) on 25<sup>th</sup> February 2025 from 2 pm to 4 pm drawing attention to the evolving landscape of sustainable concrete solutions. This program is helpful for the students to understand the mechanism of GGBS for Strong, Durable, Sustainable, & Green Concrete Constructions.

The lecture featured Mrs. Tejal Patil and Mr. Abhishek Tiwari from JSW Cement, who shared their expertise with an audience of eager UG civil, Construction Management and Structural Engineering M.Tech students.

The central theme of the lecture was “Ground Granulated Blast Furnace Slag (GGBS) for Strong, Durable, and Sustainable & Green Concrete Construction.” As representatives of JSW Cement, a subsidiary of the JSW Group, Mrs. Tejal Patil and Mr. Abhishek Tiwari provided valuable insights into the company’s expansive role in the cement industry. Their presentation covered the diverse product range of JSW Cement, including key materials like Ordinary Portland Cement (OPC), and particularly GGBS.

The lecture focused on the advantages of using GGBS, a sustainable alternative to traditional cement, in various construction projects. The guests highlighted JSW Cement’s commitment to eco-friendly practices and its initiatives to reduce carbon emissions and integrate green technology in its manufacturing processes.

They have discussed how GGBS contributes to reducing the environmental impact of construction. This includes lowering CO<sub>2</sub> emissions, as GGBS production is less energy-intensive than traditional Portland cement. They have mentioned many case studies Such as Atal setu, Coastal road, Ayodhya Ram mandir which has utilized GGBS.



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The event not only provided technical knowledge but also inspired the upcoming generation of engineers to consider environmental impacts in their future endeavors.

The students appeared enthusiastic and engaged throughout the lecture. They actively participated in the discussion, with many students asking questions about the practical applications of GGBS in the real world and how it compares to other sustainable materials.

Photographs of the program are as follows.





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