Report on Guest Lecture titled "Beyond the Syllabus: A Civil Engineer's Journey and the Road Ahead" organized by department of Civil Engineering, Integral University on 3rd February 2026.

The Department of Civil Engineering, Integral University, Lucknow, organized a guest lecture on 3 February 2026 (Tuesday) at 10:30 AM in the Seminar Hall, Room No. E119, E-Block, titled "Beyond the Syllabus: A Civil Engineer's Journey and the Road Ahead." The lecture was conducted for undergraduate and postgraduate students, with a total attendance of 41 participants. The session was delivered by Dr. Yusuf Jamal, Post-Doctoral Fellow, University of Oklahoma, USA. The primary objective of the lecture was to expose students to the concept of Resilient Design in Civil Engineering, along with practical guidance on higher studies, research opportunities, and professional prospects abroad. The program was coordinated by Mohd. Kashif Khan, Associate Professor, Department of Civil Engineering.

Dr. Yusuf Jamal during his lecture

In his address, Dr. Jamal emphasized the evolving role of civil engineers in the era of climate change. He explained how rising global temperatures, extreme weather events, floods, and environmental degradation are significantly impacting infrastructure systems worldwide. He highlighted the responsibility of civil engineers to adopt sustainable materials, low-carbon construction techniques, and environmentally sensitive planning approaches to mitigate climate-related risks and ensure long-term sustainability.

A major focus of the lecture was on Resilient Design in Civil Engineering. Dr. Jamal elaborated that modern infrastructure must be designed not only for strength and serviceability but also for resilience against natural disasters such as earthquakes, floods, cyclones, and heat waves. He discussed key strategies including risk-informed design, adaptive infrastructure systems, redundancy in structural design, and performance-based engineering to enhance the durability, safety, and lifespan of structures under changing climatic conditions.

Dr. Jamal also discussed the application of GPS technology in civil engineering, particularly in advanced surveying, geospatial mapping, disaster monitoring, and infrastructure planning. Furthermore, he stressed the importance of proficiency in modern civil engineering software for structural analysis, design modeling, Building Information Modeling (BIM), and project management. He advised students

Dr. Jamal interacting with the participants

that strong digital skills and interdisciplinary knowledge are essential to meet emerging engineering challenges and remain competitive in the global arena.

The lecture was highly informative and interactive. Students actively engaged in discussions and gained valuable insights into global research trends, technological advancements, and diverse professional pathways in civil engineering.

At the end of the lecture, Mr. Mohd Kashif Khan, expresses sincere gratitude on behalf of Department of Civil Engineering to Dr. Yusuf Jamal for delivering an insightful and impactful lecture. He also extends special thanks to Prof. Syed Aqeel Ahmad, Head of the Department of Civil Engineering, for providing the necessary facilities and institutional support to successfully organize this academic event.

The themes discussed during the lecture strongly aligned with global sustainability priorities, particularly SDG 4 – Quality Education through industry-relevant learning, SDG 13 – Climate Action, SDG 11 – Sustainable Cities and Communities, and SDG 9 – Industry, Innovation and Infrastructure.