Expert Talk on "Urban and Infrastructure Resilience: Concept and Methodology"

Event Details

- **Organized by:** Department of Civil (Structural Engineering), Gujarat Technological University School of Engineering and Technology (GTU-SET)
- Date: 03 September 2025 (Wednesday)
- Time: 03:30 PM onwards
- Mode: Online (Google Meet)
- **Speaker:** Dr. Zaishang Li, UKRI Guarantee Postdoctoral Fellow, Department of Civil, Environmental and Geomatic Engineering, University College London (UCL)
- Coordinator: Dr. K. M. Gondaliya
- Convener: Prof. (Dr.) J. A. Amin, Professor, GTU-SET.

Event Summary

The Department of Civil (Structural Engineering), GTU-SET, successfully organized an expert talk session on "Urban and Infrastructure Resilience: Concept and Methodology" on 3rd September 2025. The session featured Dr. Zaishang Li from University College London (UCL), an eminent researcher in the field of infrastructure resilience, artificial intelligence, and advanced computational methods.

The program commenced with a welcome address by Dr. Kaushik Gondaliya, who highlighted the importance of resilience in rapidly urbanizing India, emphasizing the vulnerabilities exposed by natural disasters, climate change, and socio-economic disruptions. He stressed how global best practices and advanced methodologies could be contextualized for Indian cities.

Dr. Li's lecture provided deep insights into the conceptual and methodological frameworks of urban and infrastructure resilience. Using case studies and computational approaches, he explained the application of **agent-based models**, **system dynamics modelling**, **and hybrid simulations** to evaluate healthcare system resilience, disaster recovery, and urban functionality under stress. The talk also addressed how artificial intelligence and data-driven strategies can strengthen decision-making in resilience planning.

The session witnessed active participation, with **over 30 attendees**, including faculty members, researchers, and students, who engaged in an enriching discussion with the speaker. **Prof. (Dr.) J. A. Amin** commended Dr. Li's contribution and emphasized the relevance of such academic collaborations in strengthening the global outlook of GTU-SET.

The event concluded with an interactive Q&A session, leaving participants with valuable perspectives on integrating resilience into urban infrastructure development.

Glimpse of the event

