



सिविल अभियांत्रिकी विभाग, आईआईटी कानपुर

Department of Civil Engineering, IIT Kanpur

# NEWSLETTER

JULY–DEC 2025



## FROM THE HoD's DESK

Dear All,

*It is a privilege to present the July–December 2025 issue of our department's newsletter as we enter the New Year. This edition marks an important milestone, being the first departmental newsletter, and serves as a platform to highlight the significant achievements and contributions of our faculty, students, staff, and alumni over the past six months. From impactful research initiatives to student accomplishments and faculty recognitions, the newsletter reflects our sustained commitment to excellence in education and innovation. As we move into 2026, we remain dedicated to fostering collaboration, advancing knowledge, and inspiring the next generation of engineers. I sincerely commend our faculty, students, and staff for their continued dedication and valuable contributions. Together, we will continue to advance the frontiers of civil engineering while addressing national and global challenges with integrity, purpose, and vision.*

*With best wishes,  
Prof. Priyanka Ghosh*

## Highlights

- **Prof. Mukesh Sharma** was appointed as expert member on multiple national and regional air quality and pollution management committees under CAQM, MoEFCC, and DPCC.
- **Dr. Naveed Ul Hassan Bhat** and **Dr. Gowtham G** were awarded for their exceptional doctoral research.

## Awards and Recognitions (Faculty)



**Prof. Mukesh Sharma** was appointed as an expert member on multiple national and regional committees for air quality management, emission inventory and source apportionment, vehicular pollution abatement, NCAP city assessment, and Indo-Gangetic Plain airshed management under CAQM, the Ministry of Environment, Forest and Climate Change, and DPCC.

**Prof. Abhijith G. R.** received the JWRPM Award for EWRI 2025 for Best Associate Editor, conferred by the ASCE Journal of Water Resources Planning and Management, in recognition of outstanding editorial contributions.



## Awards and Recognitions (Students)

- **Dr. Gowtham G** and **Dr. Naveed Ul Hassan Bhat** were conferred the **Outstanding Ph.D. Thesis Award** for their exceptional doctoral research.
- **Ms. Todmal Shreya Atul Anjali** was awarded the **Best All-Rounder Girl Student Gold Medal** for the 2-year Master's Programme.
- **Mr. Sarguroh Hammad Shahid Neelam** received the **Prof. ASR Sai Gold Medal** for outstanding academic excellence.
- **Mr. Aditya Sharma**, Ph.D. scholar under the supervision of **Prof. Purnendu Bose**, has received the **Best Paper Award** for the paper titled, "Longevity of Backwashable Ultrafiltration Membranes Based on Integrated Permeate Channel Technology in Wastewater Treatment" at IIT Kanpur.
- **Ms. Ashma Parween**, Ph.D. scholar under the supervision of **Prof. Purnendu Bose**, has received the **Best Oral Presentation Award** for the " Nature-based Water and Wastewater Treatment" track, on the topic "Phosphorus Recovery from Sewage Sludge Biochar" held at IIT Kanpur from 20–22 November 2025.
- **Mr. Moonis Ali**, Ph.D. scholar under the supervision of **Prof. Bharat Lohani**, has been awarded the **Best Paper Award** for his paper, "Evaluating Spatial Granularity in Tree Volume Upscaling Using LiDAR and Orthophotos", during the 2025 IEEE India Geoscience and Remote Sensing Symposium (InGARSS 2025) held at IIIT Bhubaneswar, 10–13 December 2025.

## Seminars / Invited Talk in Department of Civil Engineering



**Prof. Madhavi Latha Gali**, the first female faculty member of the Civil Engineering Department at the Indian Institute of Science (IISc), Bengaluru, delivered a talk titled **“Where Civil Engineering Meets the Clouds: Chenab Bridge”** on September 10, 2025.

**Dr. Hossam Aboel Naga**, Professor and Head of the Engineering Department at La Trobe University, delivered a talk titled **“Soft Ground Improvement by Thermally Enhanced Preloading Method”** on **November 25, 2025**



**Prof. Ashish Bhaskar**, Professor of Civil Engineering (Transport) at Queensland University of Technology (QUT), Australia, delivered a talk titled **“Transport Network Intelligence: Transforming Evidence into Actionable Impact”** on **December 13, 2025**.

## New Appointments



**Dr. Sandhya Mishra** has joined the Department of Civil Engineering, IIT Kanpur, as **Research Establishment Officer** on 3 Nov 2025.



**Mr. Roshan Banbariya** has joined the Department of Civil Engineering, IIT Kanpur, as **Research Establishment Officer** on 13 Oct 2025.



**Mr. Nitin Kumar** has joined the **Environmental Engineering**, Department of Civil Engineering, IIT Kanpur, as a Junior Technician on 4 Aug 2025.



**Mr. Sunil Kumar Mourya** has joined **Transportation Engineering**, Department of Civil Engineering, IIT Kanpur, as a Junior Technician on 4 Aug 2025.

## Workshops

- A new NPTEL course titled “**Transportation Network Analysis**” was offered during **August–October 2025**, delivered by **Prof. Hemant Gehlot**, covering both fundamental and advanced concepts in transportation network modeling and analysis.
- A new NPTEL course titled “**Introduction to Asset Management**” was offered during **August–October 2025**, covering the principles and practices of modern asset management, and was delivered by **Prof. Sudhir Misra and Prof. Chirag Kothari**.
- A workshop titled “**Fostering Industry–Academia Linkages in Transportation Engineering Research and Education**” was organized on **4–5 October 2025**, aimed at strengthening collaboration between academia and industry, and was coordinated by **Prof. Pranamesh Chakraborty**.
- A short course titled “**Contract Management and Construction Laws for Professionals**” was conducted from **8–10 October 2025**, focusing on contractual practices and the legal aspects of infrastructure projects, and was delivered by **Prof. Sudhir Misra and Prof. Chirag Kothari**.
- A short-term course titled “**Micromechanical Analysis of Granular Materials**” was conducted from **3–6 November 2025**, covering DEM fundamentals, micromechanics, pore structure analysis, imaging techniques, and hands-on software training, and was delivered by **Prof. Arghya Das**.
- An International Workshop on “**Advanced Numerical Modelling for Geotechnical Engineering**” was held from **6–8 November 2025**, highlighting state-of-the-art computational approaches in geotechnical analysis. The workshop was conducted by **Prof. Priyanka Ghosh, Prof. Arghya Das, Prof. R. Sathiyamoorthy, Prof. P. Raychowdhury, Prof. Gaurav Tiwari, Prof. N. R. Patra, Prof. Jagdish Prasad Sahoo, and Prof. Bipin Kumar Gupta**.



- A short-term course titled “**Source to Tap: Design and Analysis of Water Supply Systems**” was conducted from **10–15 November 2025**, focusing on the planning, design, and performance evaluation of water supply systems, organised by **Prof. Abhijith G. R. and Prof. Manoj Kumar Tiwari**.
- The International Conference “**SCOPE 2025 – Sustainability, Circularity, Outreach and Policy for Environment**” was held from **20–22 November 2025**, bringing together researchers and practitioners to deliberate on sustainable environmental solutions, and was coordinated by **Prof. Abhijith G. R. and Prof. Manoj Kumar Tiwari**.

## Research Publications

- Research Publications Department of Civil Engineering: [Publications](#)

## Instruments Purchased



**Resonant Column Test Device** (*CHIR-AYU Controls, Model: 31-WF8600*) has been procured. The instrument is used for advanced soil testing to determine dynamic soil properties, including shear modulus and damping ratio at small strain levels, supporting research in earthquake engineering, machine foundations, and soil-structure interaction.

**Particle Image Velocimetry (PIV/PSV)** system has been procured to support advanced experimental research by visualizing and accurately measuring fluid flow velocities and patterns using laser-illuminated tracer particles.



**Tilting Flume** was purchased in the Department of Civil Engineering for advanced experimental studies on open-channel flow, sediment transport, and hydraulic engineering applications.

## Departmental Activities

- The **Department of Civil Engineering, IIT Kanpur**, successfully conducted the Orientation Program for PG students (Batch 2025–26) on **25 July 2025**. The program introduced students to the department, academic structure, research opportunities, and campus resources, while enabling interaction with faculty members.



- On the occasion of the **International Day of Clean Air for Blue Skies**, the World Meteorological Organization (WMO) released its 2025 Air Quality and Climate Bulletin on **5 September**. The bulletin features an invited article by **Prof. Tarun Gupta** (IIT Kanpur) and his former PhD Student **Dr. Pradhi Rajeev** (IIT Patna), highlighting a decade of research on the role of aerosols in wintertime fog over the Indo-Gangetic Plains, contributing to effective science communication and public awareness.
- The **Department of Civil Engineering, IIT Kanpur**, hosted a senior delegation from **Kyoto University, Japan**, on **17 September 2025**. The visit included interactions with faculty members to explore future research collaborations and marked an important step toward strengthening academic ties and promoting student and faculty exchange between the two institutions.



- The **Transportation Engineering (TE)** group at IIT Kanpur celebrated 50 years of its postgraduate programme with a **Golden Jubilee Reunion on 4-5 October 2025**. The event brought together over 45 M.Tech./Ph.D. alumni from graduating batches spanning 1979 to 2025, along with founding faculty member **Prof. B. R. Marwah**, who graced the occasion as a special invitee. The reunion featured sessions focused on strengthening industry-academia collaboration, poster presentations by current postgraduate students, and a brainstorming discussion on enhancing long-term engagement between the TE group and its alumni.



- A one-day **Rashtriya Karmayogi training programme** for all staff members, under the iGOT Karmayogi initiative, was conducted on **15 December 2025** in accordance with the directives of the **Capacity Building Bureau (CBB) and the Ministry of Education**. The programme aimed to inculcate a spirit of Seva Bhaav among the staff members



## Obituary



The Department mourns the passing of **Prof. S. P. Palanisamy**, served IIT Kanpur with distinction from **1968 to 2001**. We fondly remember his invaluable contributions to the Department and to the field of **Transportation Engineering**. His dedication to teaching, research, and institutional development will be remembered with deep respect. The Department extends its heartfelt condolences to his family and pays tribute to his enduring legacy.



The Department mourns the passing of **Prof. Pasala Dayaratnam**, former **Head of the Department and Dean (R&D) (1965-1994)**. He was a distinguished academician and a visionary mentor who guided the Department with integrity and dedication. His lifelong contributions to teaching, research, and institutional growth will be remembered with deep reverence. The Department extends its sincere condolences to his bereaved family and humbly pays tribute to his enduring legacy.

## Forthcoming Events

- The symposium “Building Bharat Sampark Innovation Boot Camp” will be organized from **3-5 February 2026**.

## Contact Information

Department of Civil Engineering

Indian Institute of Technology

KANPUR - 208 016

Address: Room: 313 Faculty Building

Phone : (91-512) 259 7631

Fax : (91-512) 259 7395

Email: [officece@iitk.ac.in](mailto:officece@iitk.ac.in)

E-mail: [head\\_ce@iitk.ac.in](mailto:head_ce@iitk.ac.in)



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