



# सिविल इंजीनियरिंग विभाग, आईआईटी कानपुर

## Department of Civil Engineering IIT Kanpur

# NEWSLETTER

## JAN–JUNE 2026



### FROM THE HoD's DESK

*Dear All,*

*Welcome to the latest volume of our departmental newsletter, covering the period from January to June 2026. We are pleased to present the second edition of the newsletter, highlighting the major activities, achievements, and developments within the Department of Civil Engineering, Indian Institute of Technology Kanpur. This edition showcases the remarkable accomplishments and continuous efforts of our faculty, students, researchers, and staff members. From innovative research contributions and academic excellence to student achievements and departmental activities, the newsletter reflects our collective commitment to quality education, research, and innovation in the field of Civil Engineering.*

*I sincerely appreciate the dedication, hard work, and valuable contributions of everyone associated with the department. Together, we will continue striving towards excellence and advancing the frontiers of civil engineering for the benefit of society and sustainable development.*

***With best wishes,  
Prof. Priyanka Ghosh***



## Highlights

- IIT Kanpur co-featured in a **Guinness World Record** for the **Largest Electric Bicycle Delivery** under the E-Cycle Program, represented by **Prof. Manoj K. Tiwari** and **Prof. Rajeev Jindal**.
- IIT Kanpur signed an **MoU with the Indian Army's Central Command** to conduct a specialized course on **“Construction Management: Quality, Contracts and Arbitration.”** Coordinated by **Prof. Sudhir Misra** and **Prof. Chirag Kothari**.

## Awards and Recognitions (Faculty)

- IIT Kanpur was co-featured in the **Guinness World Records** for the **Largest Electric Bicycle** Delivery under the E-Cycle Program, conducted in collaboration with EMotorad, the Kuppam Area Development Authority, the District Collectorate of Chittoor, and the Government of Andhra Pradesh. The institute was represented at the event by the project's Principal Investigators, **Prof. Manoj K. Tiwari** and **Prof. Rajeev Jindal**.



- **Prof. Mukesh Sharma** has been nominated as a member of the **National Board for Wildlife (NBWL)** in recognition of his contributions as an eminent conservationist, ecologist, and environmentalist.

## Awards and Recognitions (Staff)

- **Mr. Prashant Jaiswal**, Superintendent, Department of Civil Engineering, IIT Kanpur, was honored with the **Merit Award 2025** for his exemplary service, professionalism, and dedication. Instituted by the Board of Governors, the award recognizes outstanding contributions by non-teaching staff.
- The award for **Long & Satisfactory Service** in the Institute has been presented to **Mr. Sharmendra Srivastava**, Senior Technical Superintendent, Civil Engineering, and **Mr. Piridi J. Agannadham**, Senior Technical Superintendent, Civil Engineering. Heartiest congratulations to all the awardees for their hard work and achievements.



## Awards and Recognitions (Students)

- **Mr. Shivam Singh**, Ph.D. scholar under the supervision of **Prof. Tarun Gupta**, has received the Best Paper Award for the paper titled, "**Review of Current and Future Indoor Air Purifying Technologies**" published in ACS ES&T Engineering 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 paper titled, "**Potassium Modification of Sewage Sludge Biochar for Enhanced Phosphorus Recovery**" at Technological Advancements in Waste Management: Challenges and Opportunities (**TAWMCO-2025**), held at IIT (ISM) Dhanbad from **5-6 December 2025**.
- **Mr. Vivek Anand**, Ph.D. scholar under the supervision of **Prof. Bharat Lohani**, has received the Best Paper Award titled "**Realistic LiDAR Data Simulation for Autonomous Systems using Physics-Informed Learning**" at "**Emerging Technologies**" category at **SIAT 2026**, organized by the Automotive Research Association of India (ARAI).
- **Mr. Aditya Sharma**, Ph.D. scholar under the supervision of **Prof. Purnendu Bose**, has received Best Oral Presentation Award at the conference "**Membranes for Decarbonization and Sustainability (MDCS)**" and "**Applied Membrane Technology and Translational Research (AMTTR-2)**" jointly organized by Indian Membrane Society (IMS) and Gogri Hub for Membrane Research, IIT Bombay from **12-14 February 2026**.
- **Mr. Aswin A Nair** (241030022, M. Tech /CE) under the supervision of **Prof. Purnendu Bose & Prof. Abhijith G R** has received the Best Oral Presentation Award for "**Propagation, Transformation and Persistence of Antimicrobial Resistance in Drinking Water Systems**" in **5th National Environmental Conference (NEC-2026)**, held at IIT Bombay, from **13-14 March 2026**.
- **Mr. Mohd Musahib** (231030410, MS-Research/CE), under the supervision of **Prof. Abhas Singh**, has received the Best Oral Presentation Award for "**Decadal Monitoring of Arsenic in Groundwater and Its Implications on the Sustainability of Aquifers**" at the International Conference on Desalination, Water Treatment & Management, held at MNIT Jaipur from **27-28 March 2026**.

## Seminars / Invited Talk in Department of Civil Engineering

- The Society of Civil Engineers (SoCE) organized a guest talk by **Mr. Rajendra Bhattarai** on 5 February 2026. Titled "**Strass: The First Net Energy Positive Wastewater Treatment Plant in the World**," the talk presented the remarkable case of the Strass wastewater treatment plant in Austria, highlighting how innovative technologies and strong organizational practices enabled it to generate more energy than it consumes.



- The Department of Civil Engineering, IIT Kanpur, hosted the Devendra K. Shukla 1967 Distinguished Lecture on 24 March 2026, delivered by **T. G. Sitharam**. His talk, “**Coastal Reservoirs for Water Security and Environmental Stewardship: Technology, Innovation and Ideas for Offshore Geotechnologies**,” highlighted the potential of coastal reservoirs and offshore geotechnologies in enhancing water security and developing sustainable, climate-resilient water infrastructure. The event was attended by faculty, students, and researchers.



## New Appointments



**Dr. Kaushik Bhattacharjee** has joined the Department of Civil Engineering, IIT Kanpur, as an **Assistant Professor** on 17 June 2026.

## Workshops/Conferences

- The International Conference on “**Sensing and Modeling for Pedestrian Mobility and Safety**” was held at IIT Kanpur on **2–3 February 2026**. The conference brought together researchers and experts to discuss advancements in pedestrian mobility, safety, sensing technologies, and modeling techniques. The event was coordinated by **Prof. Salil Goel** and **Prof. Aditya Medury**.
- Prof. Tarun Gupta (DORD)** has graciously consented to serve as the **Chief Guest**, while **Prof. Milad Haghani** from the **University of Melbourne** will deliver the keynote address.



- The **“Building Bharat Sampark Innovation Boot Camp in Civil Engineering,”** jointly organized by the Association of Infrastructure Industries India and IIT Kanpur during 3–5 February 2026, was coordinated by **Prof. Sudhir Misra** and **Prof. Chirag Kothari**.



- A National Workshop on **“Rural Water Management & Treatment Technologies”** was organized on 16–17 March 2026 under the Water Resource Management Subject Expert Group (SEG) of Unnat Bharat Abhiyan. The event was coordinated by **Prof. Manoj Kumar Tiwari**.



- IIT Kanpur has signed a **Memorandum of Understanding (MoU)** with the Indian Army's Central Command to conduct a specialized course titled **"Construction Management: Quality, Contracts and Arbitration,"** Coordinated by **Prof. Sudhir Misra** and **Prof. Chirag Kothari** aimed at enhancing the technical and managerial competencies of its officers.



## Research Publications

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

## Instruments Purchased

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



- **Fluorescence Spectrophotometer (SHIMADZU):** The system has been procured for the **Environmental Engineering Laboratory**. A fluorescence spectrophotometer is a highly sensitive analytical instrument that measures the fluorescence emitted by a substance after it absorbs ultraviolet or visible radiation. Based on the fluorescence characteristics of samples, it is widely used for the qualitative and quantitative analysis of chemical compounds.



## Departmental Activities

- The department had the privilege of conducting a meeting with esteemed alumnus **Dr. Devendra K. Shukla** on **24 February 2026**.



- The Department of Civil Engineering organized a Formal Farewell Ceremony on **17 April 2026** for all Undergraduate (UG) and Postgraduate (PG) students, and we wish you all the very best for a bright and successful future ahead.



## Patent and Technology Developed

- **An Assembly for Analyzing Quality and Quantity of Rainwater from a Collected Sample**, developed by **Pravesh Singh, Roshan Banbariya, Nishitha A., Vikas, and Dr. Shivam Tripathi**. The patent was granted on **2 April 2026** (Patent No. **586263**).
- **Red Mud–Bio-Enzyme Stabilized Soil for Subgrade Pavement**, developed by **Piyush Parik and Dr. Nihar Ranjan Patra**. The patent was granted on **22 May 2026** (Patent No. **589993**).
- **Stabilized Material for Subgrade Pavement**, developed by **Aragaw Asha Ashango and Dr. Nihar Ranjan Patra**. The patent was granted on **09 June 2026** (Patent No. **591628**).
- **A Load-Limiting Device for Suspension Towers and Method Thereof**, developed by **Mr. Hironmoy Kakoty and Dr. Chinmoy Kolay**. The patent was granted on **23 June 2026** (Patent No. **593168**).
- A technology development was done by **Prof. Priyanka Ghosh** on **“Innovative Panel-Based Staggered and Intermittent Geofoam-Infilled Trenches for Vibration Mitigation”**.
- **Prof. Bharat Lohani** developed several innovative technologies, including **LiDAVerse**, a comprehensive Indian LiDAR data repository supporting AI, machine learning, remote sensing, and geospatial research; **Smart Sprayer**, a LiDAR-based precision agriculture system for efficient orchard spraying; and an **AV/ADAS Simulator**, a simulation platform for testing and validating autonomous vehicle and advanced driver assistance system algorithms in a safe and controlled environment.

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