



## Department of Civil Engineering



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# Newsletter Highlights

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VOLUME XX, ISSUE IV  
NEWSLETTER

Oct-Dec 2025

# From Chief Editor's Desk



**Prof. (Dr.) Tabassum Abbasi**  
**HOD, Department of Civil Engineering**

## **Message from the Head of Department,**

Our goal is to develop the next generation of engineers who are not only experts in their field but also deeply aware of the environmental and social impacts of their work. As we confront global issues like climate change and resource depletion, civil engineers have an increasingly important role to play in promoting sustainable practices.

Our department is committed to offering a well-rounded education that highlights innovative solutions like renewable energy, green construction techniques, and infrastructure designed to withstand the challenges of a changing world. We inspire our students to think outside the box, work together as teams, and adopt cutting-edge technologies that can reshape how we build cities and communities.

Through hands-on experience, research initiatives, and partnerships with industry leaders, we aim to equip our students to lead efforts in creating energy-efficient, environmentally sustainable structures. We believe that the engineers of tomorrow will be key players in building a more sustainable, eco-friendly future.

We're excited to see the incredible contributions our students and faculty will continue to make as we work together towards a greener world.

**Prof. (Dr.) Tabassum Abbasi**  
**Chief Editor & HOD Dept. of CE**

**Education**  
is the most powerful weapon  
which you can use to  
**Change the World**

~Nelson Mandela

**Oct-Dec 2025**

**VOLUME XX, ISSUE IV**  
**NEWSLETTER**

# Civil Engineering Industry Trends, Technologies & Startups: Latest Insights for 2025

## a. Introduction: The State of Civil Engineering in 2025

- The civil engineering industry has evolved significantly in recent years, and the landscape in 2025 is marked by the integration of new technologies, sustainable practices, and digital transformation. The global push for sustainable infrastructure, smart cities, and more resilient construction techniques has reshaped how projects are designed, managed, and executed.

## b. Smart Cities & Urban Planning

- **IoT Integration:** The integration of Internet of Things (IoT) into civil engineering projects is revolutionizing urban infrastructure. From smart roadways to smart traffic systems, cities are becoming more connected and efficient.
- **Autonomous Vehicles & Infrastructure:** Cities are preparing for the future by developing infrastructure for autonomous vehicles, such as sensor-equipped roads and smart intersections.
- **Data-Driven Urban Planning:** Advanced analytics and AI are being used to optimize urban planning, reducing congestion, improving safety, and enhancing the overall quality of life

## c. Resilience & Disaster-Proof Infrastructure

- Climate Adaptation: As extreme weather events become more frequent, the civil engineering industry is focused on creating infrastructure that can withstand floods, hurricanes, and other natural disasters.
- Disaster Recovery Solutions: Developing quick-deployment solutions for emergency construction, like modular buildings and portable infrastructure, is a rising trend in civil engineering.

## d. Digital Transformation in Construction

- BIM (Building Information Modeling): BIM continues to dominate the industry by improving design accuracy, reducing errors, and streamlining the construction process. BIM is evolving to include 4D (time) and 5D (cost) dimensions, providing better project management tools.

## e. Innovative Civil Engineering Startups

- The civil engineering space has seen the rise of several groundbreaking startups that are pushing the boundaries of what's possible in construction and infrastructure:
- technology can revolutionize construction by reducing the need for traditional manufacturing processes and enhancing design flexibility.

Conclusion: Embrace the Future: The civil engineering industry is undergoing a transformation that promises to reshape the way we live, work, and interact with our built environment. For professionals in the field, embracing these trends and technologies isn't just an option—it's essential for staying competitive in an increasingly dynamic world.

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# ALUMNI CONNECT PROGRAM

The Department of Civil Engineering organized an Alumni Connect Program on 7th November 2025 from 11:30 AM onwards, aimed at inspiring and guiding students through alumni experiences. The session featured Mr. Girish Kumar, a 2021 alumnus, currently working as an RHS Engineer (NOC Team) at S T Telemedia Data Centre, Delhi.

Mr. Girish Kumar engaged with students by sharing his professional journey and delivering an insightful talk on “Career Path in Civil Engineering.” He highlighted that civil engineering extends beyond the construction of structures and plays a vital role in shaping communities and addressing real-world challenges. Emphasizing the impact of infrastructure such as roads, bridges, water systems, and sustainable buildings, he motivated students to recognize the societal importance of their chosen field.

The speaker also discussed the diverse career opportunities available in civil engineering, including construction, design, sustainability, project management, and research. He encouraged students to view classroom learning as the foundation of their professional growth and to continuously develop skills that would prepare them for real-world applications.

The session proved to be highly motivating and informative, leaving students inspired to pursue civil engineering not just as a career, but as a means to make a meaningful and lasting contribution to society.



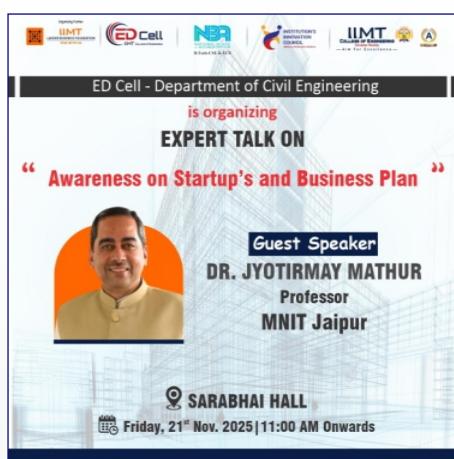
# EXPERT TALK ON

## AWARENESS ON STARTUP'S AND BUSINESS PLAN

The department has organized an expert lecture on “Awareness on Startup and Business Plan” with the objective of sensitizing students to the concepts of entrepreneurship and innovation. The session aimed to provide a comprehensive understanding of the startup ecosystem, highlighting the importance of idea generation, market analysis, funding opportunities, and structured business planning.

The lecture was delivered by an experienced industry expert who shared practical insights drawn from real-world startup experiences. The speaker emphasized the essential components of a successful business plan, including vision and mission formulation, product or service development, financial planning, risk assessment, and scaling strategies.

Students from various departments participated actively in the program and interacted with the resource person through discussions and question-and-answer sessions. The lecture proved to be highly informative and motivating, encouraging students to explore entrepreneurial opportunities and consider startups as a viable career path. The event contributed significantly to enhancing students' awareness of startups and nurturing an entrepreneurial mindset.



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# NATIONAL POLLUTION CONTROL DAY

The Department celebrated “National Pollution Control Day” on 2nd Dec, 2025 with the objective of creating awareness among students about environmental protection and the urgent need to control pollution. The program highlighted the significance of sustainable practices and the collective responsibility of individuals in safeguarding the environment.

Various activities were organized as part of the celebration, including expert talks, awareness sessions, and student interactions focusing on different types of pollution such as air, water, noise, and soil pollution. The importance of pollution prevention measures, waste management, and the adoption of eco-friendly technologies was emphasized during the sessions.

Faculty members and students actively participated in the event, demonstrating their commitment toward environmental conservation. The program also underscored the relevance of National Pollution Control Day in remembering the Bhopal Gas Tragedy and reinforcing the need for strict environmental regulations and responsible industrial practices.

The celebration successfully enhanced environmental awareness among students and encouraged them to adopt sustainable habits in their daily lives. The initiative reflected the Department's continuous efforts to promote environmental responsibility and contribute towards a cleaner and healthier society.



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## Department Of Civil Engineering



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