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COLLEGE OF ENGINEERING
Greater Noida
— Aim For Excellence —

NIRMAAN

Department of Civil Engineering

Newsletter Highlights

AUTOCAD Drawing Competition | Alumni Connect | World Environment Day



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April-June 2026
VOLUME XVIII, ISSUE I
NEWSLETTER

From Chief Editor's Desk



Prof. (Dr.) Tabassum Abbasi

HOD, Department of Civil Engineering

Dear Students and Faculty Members,

It gives me immense pleasure to present this edition of the **Civil Engineering Department Newsletter**, which showcases the academic achievements, technical activities, and innovative initiatives undertaken by our Department. The Department of Civil Engineering remains committed to fostering academic excellence, research, innovation, and experiential learning. Through seminars, workshops, industrial visits, expert lectures, technical competitions, and community engagement activities, we strive to equip our students with the knowledge, practical skills, and professional ethics required to excel in the ever-evolving field of civil engineering. As India progresses towards its **Infrastructure Vision 2047**, civil engineers have a pivotal role in shaping resilient, sustainable, and technologically advanced infrastructure. Emerging technologies such as Artificial Intelligence (AI), Building Information Modeling (BIM), Digital Twins, smart construction practices, and green building technologies are transforming the engineering landscape. Our Department actively encourages students to embrace these advancements while addressing global challenges related to sustainability, climate resilience, smart cities, and efficient water resource management. I sincerely appreciate the dedication and hard work of our faculty members, students, researchers, alumni, and industry partners, whose collective efforts continue to strengthen the department's academic and professional excellence. I also extend my congratulations to the editorial team for their commitment to producing this newsletter and effectively documenting the department's accomplishments and milestones. I hope this newsletter serves as a source of inspiration, encourages continuous learning and innovation, and motivates our students to become responsible engineers who contribute meaningfully to nation-building and sustainable development.

"Together, let us build not only stronger structures but also a smarter, greener, and more resilient future for generations to come."

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

VOLUME XVIII ISSUE II
NEWSLETTER
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INDIA'S INFRASTRUCTURE VISION 2047: OPPORTUNITIES FOR YOUNG CIVIL ENGINEERS

As India moves toward becoming a developed nation by 2047 under the vision of **"Viksit Bharat 2047,"** infrastructure development has emerged as one of the country's highest priorities. Massive investments in transportation, urban development, renewable energy, water resources, and digital infrastructure are reshaping the nation's future. This transformation presents unprecedented opportunities for the next generation of civil engineers. The Government of India has launched several flagship initiatives, including **PM Gati Shakti**, the **National Infrastructure Pipeline (NIP), Smart Cities Mission, Bharatmala Pariyojana, Sagarmala Programme, AMRUT,** and the **Jal Jeevan Mission**. These initiatives aim to improve connectivity, strengthen urban infrastructure, enhance water security, and promote sustainable economic growth. Civil engineers are at the heart of planning, designing, constructing, and maintaining these world-class infrastructure projects.

The future of civil engineering extends far beyond conventional construction. Modern engineers are expected to integrate advanced technologies such as **Artificial Intelligence (AI), Building Information Modeling (BIM), Digital Twins, Geographic Information Systems (GIS), Internet of Things (IoT)**, drones, robotics, and data analytics into infrastructure planning and project management. These technologies improve efficiency, optimize costs, enhance safety, and enable predictive maintenance throughout the lifecycle of infrastructure assets.

Sustainability is another defining pillar of India's Infrastructure Vision 2047. The demand for green buildings, low-carbon construction materials, energy-efficient designs, circular construction practices, and climate-resilient infrastructure continues to grow. Young civil engineers must embrace environmentally responsible engineering practices while addressing challenges such as climate change, rapid urbanization, resource conservation, and disaster resilience.



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The rapid expansion of highways, expressways, metro rail systems, high-speed rail corridors, airports, inland waterways, industrial corridors, and renewable energy projects has created significant career opportunities in both the public and private sectors. In addition, emerging fields such as smart transportation systems, structural health monitoring, geospatial engineering, prefabricated construction, and resilient infrastructure are opening new avenues for innovation and entrepreneurship.

To thrive in this evolving landscape, aspiring civil engineers should focus on developing technical expertise alongside digital competencies, problem-solving skills, leadership qualities, and multidisciplinary collaboration. Continuous learning through certifications, internships, industrial training, research, and participation in professional societies will be essential for building successful careers.India's Infrastructure Vision 2047 is not merely about constructing roads, bridges, and buildings—it is about creating resilient, sustainable, and intelligent infrastructure that improves the quality of life for every citizen. Today's civil engineering students have a unique opportunity to contribute to this historic transformation through innovation, technical excellence, and responsible engineering practices.

"The infrastructure we build today will shape the India of tomorrow. Young civil engineers are not just constructing structures—they are building the foundation of a developed, sustainable, and globally competitive nation.



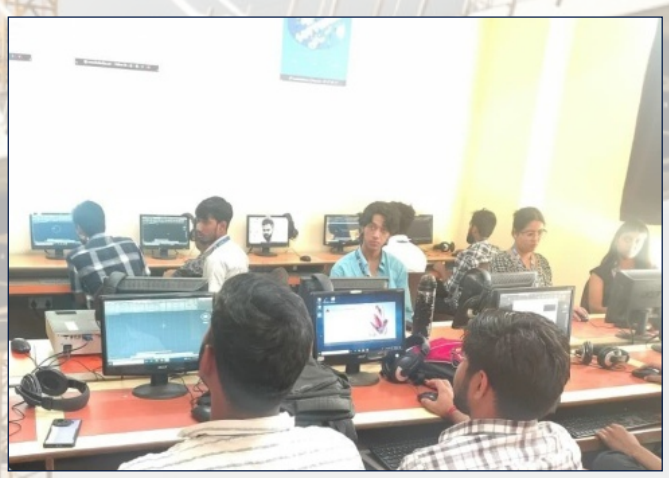
WORKSHOP ON
2D & 3D AUTOCAD DRAWING COMPETITION

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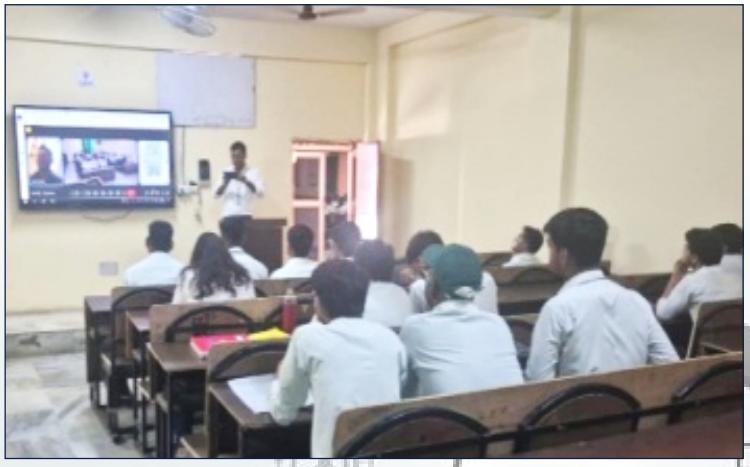


ALUMNI CONNECT

An Alumni Connect program was conducted by the Civil Engineering Department on **20th April, 2026**, from 10:30 am onwards. The speaker for the program was Mr. Azeem Ashraf, a 2020 graduate, who is currently working as **the Managing Director at Falah Salam Technical Services L.L.C., Dubai**. The online session featured a talk on the topic "**Creep in Concrete.**" During this session, the alumnus shared his knowledge and professional experiences with junior students, discussing the importance of concrete as a building material. He also explained that creep refers to the time-dependent permanent deformation of concrete under sustained loading.







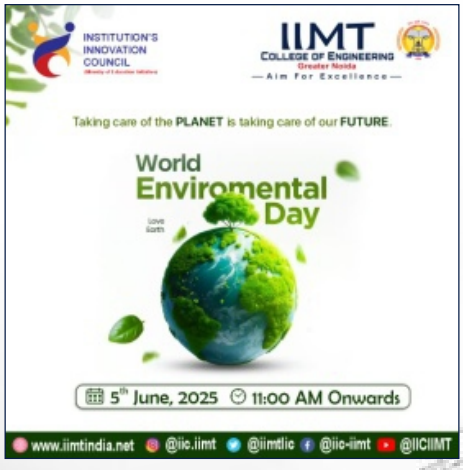


WORLD ENVIRONMENT DAY

World Environment Day on 5th June,2026 11:00 am onwards was successfully celebrated by Civil Engineering Department and served as an effective platform to promote awareness about environmental conservation and sustainable living. The program encouraged participants to understand the importance of protecting natural resources and adopting eco-friendly practices in their daily lives.

A pledge-taking ceremony was organized during the event, in which faculty members pledged to contribute towards environmental protection by conserving resources, minimizing waste, and spreading awareness about sustainability. The event concluded with renewed commitment from all participants to work collectively for a cleaner, greener, and healthier environment. After attending this event, participants were able to:

1. Participants gained a better understanding of environmental issues and their impact on society.
2. Students learned the importance of sustainable practices such as waste reduction, recycling, and resource conservation.
3. Participants developed a sense of responsibility towards protecting and preserving the environment.
4. Students became aware of practical measures that can be implemented to reduce environmental degradation.
5. The event motivated participants to actively contribute to environmental sustainability initiatives within the campus and community.







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