IIMT
COLLEGE OF ENGINEERING
Greater Noida
— Aim For Excellence —

Nirmaan

Department of Civil Engineering











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VOLUME XXI, ISSUE I
NEWSLETTER

Jan-Mar 2026

From Chief Editor's Desk



Prof. (Dr.) Tabassum Abbasi

HOD, Department of Civil Engineering

Dear Readers,

The Department of Civil Engineering continues to strive for academic excellence, innovation, and practical learning for our students. Through various academic activities, seminars, industrial visits, and technical events, we aim to enhance the knowledge and skills of our students to meet the challenges of modern engineering.

In today's rapidly developing world, the role of civil engineers has become more significant, especially in areas such as sustainable infrastructure, smart cities, and smart water management. Our department encourages students to explore new technologies and innovative solutions that contribute to environmental sustainability and societal development.

I appreciate the efforts of our faculty members and students who actively participate in academic, technical, and extracurricular activities. I also congratulate the editorial team for their dedication in compiling this newsletter and highlighting the achievements and activities of the department.

I hope this newsletter will inspire our students to continue learning, innovating, and contributing positively to society.

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

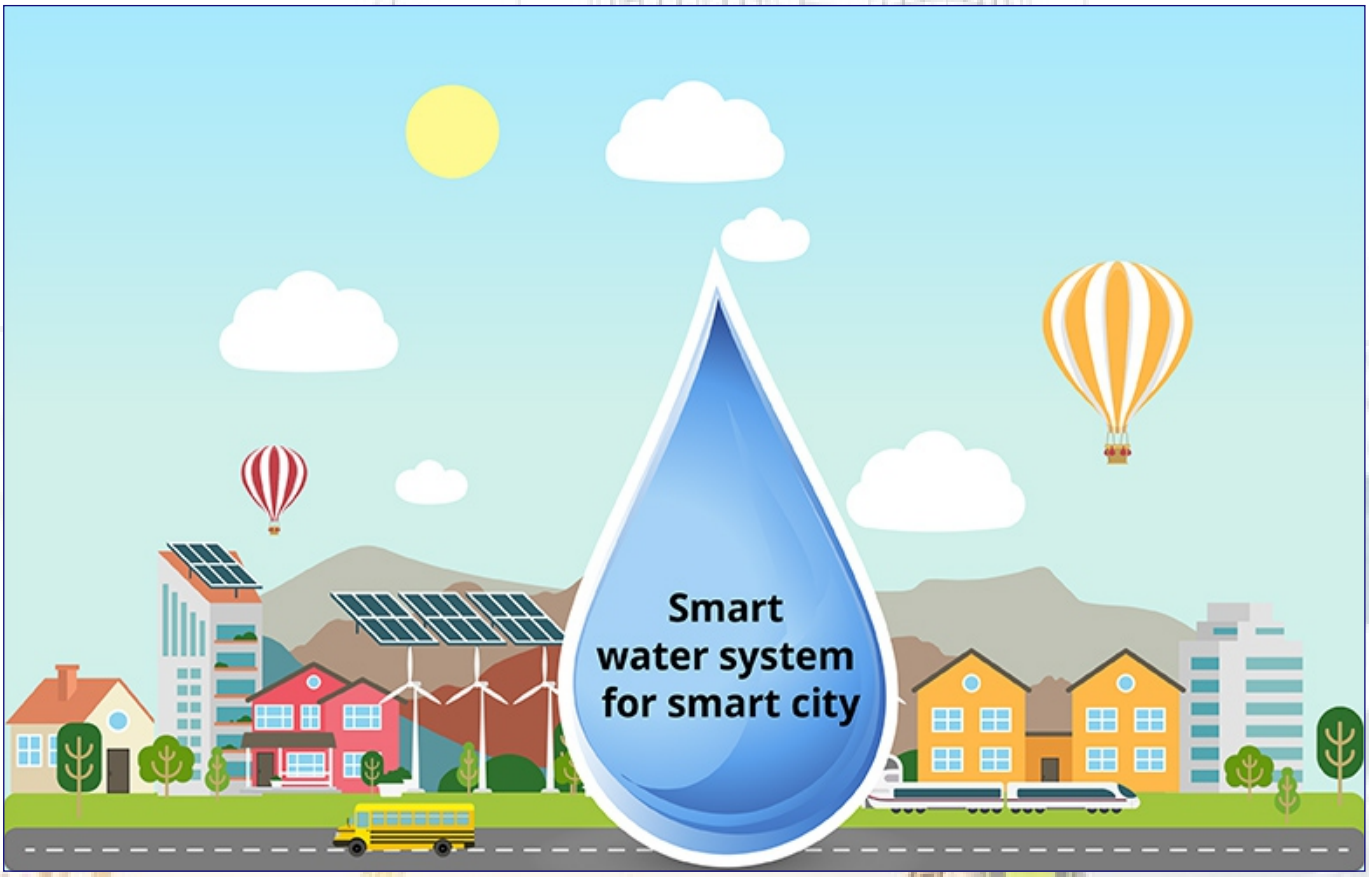
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SMART WATER MANAGEMENT FOR SMART CITY

Water is one of the most valuable natural resources for sustainable urban development. With the rapid growth of cities, efficient water management has become a major challenge. Smart Water Management is an innovative approach that uses modern technologies such as sensors, data analytics, and automated monitoring systems to ensure the efficient use and distribution of water.

In smart cities, technologies like smart meters, Internet of Things (IoT), and real-time monitoring help detect leaks, control water pressure, and monitor water quality. These systems help reduce water wastage, improve supply efficiency, and ensure equitable distribution of water to all citizens.
Rainwater harvesting, wastewater recycling, and sustainable drainage systems are also key components of smart water management. These practices help conserve freshwater resources and reduce the burden on existing water supply systems.

For engineering students and researchers, smart water management offers opportunities to develop innovative solutions for urban water challenges. By integrating technology with sustainable practices, cities can move towards a future where water resources are managed efficiently, ensuring availability for present and future generations.
Smart water management is not only a technological advancement but also a step towards building resilient and sustainable smart cities.



WORKSHOP
ON
STAAD PRO AND REVIT.

A workshop on **STAAD Pro and Revit Software** was successfully organized by the Department of Civil Engineering to enhance the technical skills of students in structural analysis and Building Information Modeling (BIM). The session aimed to bridge the gap between theoretical knowledge and practical industry requirements.

The workshop was conducted by expert trainers from **DUCAT India Pvt. Ltd.,** who possess extensive experience in structural design and BIM-based project execution. The program witnessed enthusiastic participation from students of Civil Engineering, faculty members, and technical staff.

Objectives of the Workshop

- To provide practical exposure to structural analysis using STAAD PRO.
- To introduce students to Building Information Modeling concepts using Autodesk Revit.
- To familiarize participants with real-time project modeling and design workflow.
- To enhance employability skills aligned with current industry standards.

The workshop was highly informative and interactive. It provided valuable practical exposure to industry-relevant software tools and improved students' confidence in handling structural design and BIM-based projects. The event was appreciated by both students and faculty members and proved to be a significant step toward strengthening technical competency and career readiness in the field of civil engineering. Overall, the workshop was a great success and contributed effectively to enhance professional knowledge and practical skills among participants.









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ALUMNI TALK
ON
WASTE MANAGEMENT

An Alumni connect program was conducted by Civil Department on **18th March, 2026** 11:00 am onwards. The speaker for the program **Mr. Gaurav Baghel,** 2012 batch pass out. He is currently working Assistant Manager-Project, GNIDA. He interacted with the juniors and guided them about the **"Waste Management"** .During this session, alumni members shared their practical knowledge and professional experiences with junior students. They discussed the importance of proper waste management, sustainable practices, and innovative methods used in the industry to reduce environmental impact. The alumni explained different types of waste, their segregation, recycling techniques, and the role of civil engineers in developing effective waste management systems. They also encouraged students to adopt eco-friendly practices and highlighted career opportunities related to environmental and waste management sectors. The session was highly informative and interactive. Students actively participated by asking questions and gaining insights from the alumni's real-world experiences. Overall, the interaction helped to bridge the gap between academic learning and industry practices while motivating students to contribute toward sustainable development.









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QUIZ COMPETITION

The Department of Civil Engineering organized a quiz competition for students to enhance their technical knowledge and general awareness. The event witnessed enthusiastic participation from various semesters. The quiz includes technical questions, visual identification, and problem-solving related to civil engineering concepts. Faculty members served as quiz masters and judges, ensuring fairness and accuracy throughout the competition. Students actively participated and showcased their understanding of subjects like structural engineering, environmental engineering, and construction technology. The competition created a healthy academic environment, and boosted confidence among participants. Students actively participated and demonstrated strong technical knowledge. The event encouraged healthy competition, enhanced learning beyond classrooms, and boosted confidence.







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GUEST LECTURE

ON

APPLICATION OF GEOTECHNICAL ENGINEERING

A guest lecture on the topic "Application of Geotechnical Engineering" was successfully organized for the civil engineering students. The session aimed to provide practical insights into the role of geotechnical engineering in modern construction and infrastructure development. The lecture was delivered by an experienced expert from the field of geotechnical engineering, Mr. Gauri Dutt Sharma, Designing Expert, Atal Innovation Mission, who shared valuable knowledge and real-world applications. The session began with an introduction to the fundamentals of soil mechanics, followed by an explanation of soil properties, classification, and behavior under different loading conditions. The speaker elaborated on various applications of geotechnical engineering, including foundation design (shallow and deep foundations), slope stability, retaining structures, and ground improvement techniques. Special emphasis was given to site investigation methods such as soil testing, borehole analysis, and geophysical techniques, which are essential for safe and economical design. The lecture also highlighted the importance of geotechnical engineering in major infrastructure projects such as highways, bridges, tunnels, dams, and high-rise buildings. Case studies of real projects were discussed to help students to understand practical challenges and solutions adopted in the field. Furthermore, the expert discussed modern advancements such as geosynthetics, soil stabilization methods, and the use of software tools in geotechnical analysis and design. The role of geotechnical engineers in ensuring safety, sustainability, and cost-effectiveness in construction projects was strongly emphasized. The session concluded with an interactive question-and-answer segment, where students actively participated and clarified their doubts. Overall, the guest lecture was highly informative and beneficial, enhancing the practical understanding of students and motivating them to explore career opportunities in geotechnical engineering.





INDUSTRIAL VISIT

An industrial visit was organized to observe the construction of a luxury commercial project that is being designed and constructed in Greater Noida at Sector Alpha 2, provided with the opportunity to understand the practical application of construction techniques, building materials, and project management. The visit aimed to bridge the gap between theoretical knowledge and real-world construction practices. The project involved the construction of a modern, ultra-luxury Studio Apartments with state-of-the-art facilities.

Objective of the Visit

- To observe the construction phases of a commercial project.
- To understand the materials and techniques used in large-scale construction projects.
- To interact with professionals in the field and gain insights into project management.

The industrial visit provided valuable insights into the various stages of commercial building construction, including planning, execution, and safety measures. Students gained a deeper understanding of the challenges faced in managing large-scale construction projects and the importance of teamwork, planning, and quality control. The visit helped to connect theoretical learning with practical application, provided with a clearer perspective on the construction industry.









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