




Department of Civil Engineering



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Newsletter Highlights

Workshop
Guest Lecture

Jan.-Mar. 2025
VOLUME XX, ISSUE I
NEWSLETTER

From Chief Editor's Desk



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

Dear Readers,

It gives me immense pleasure to connect with you through this newsletter and share the recent developments, achievements, and aspirations of the Department of Civil Engineering. As we navigate through an era of rapid technological advancements and infrastructural transformations, the role of civil engineers has never been more critical. Our department remains committed to shaping the future by imparting quality education, fostering innovation, and nurturing socially responsible engineers.

1. Academic Excellence and Innovations
2. The Civil Engineering Department has always strived for academic excellence by ensuring a robust curriculum, enhanced by the latest developments in the field. Our faculty members continuously upgrade their knowledge and teaching methodologies to provide students with the best possible learning experience. The incorporation of modern software tools, practical training, and interdisciplinary collaborations has enriched the academic framework, ensuring that our students stay ahead in their careers.
3. Research and innovation form the backbone of our department. Faculty members and students have actively engaged in groundbreaking research projects in areas such as sustainable construction, smart cities, environmental engineering, and structural health monitoring. Several research papers have been published in reputed journals, and our faculty has received grants for significant research initiatives. Our research endeavors align with the global demand for sustainable and resilient infrastructure solutions, contributing to societal progress.

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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HOW TECHNOLOGY IS INCREASING PRODUCTIVITY IN CONSTRUCTION INDUSTRY

Technology is revolutionizing the construction industry by enhancing efficiency, safety, and cost-effectiveness. Here's how it's boosting productivity:

1. Automation & Robotics

- Drones: Used for site surveys, progress tracking, and safety inspections.
- 3D Printing: Accelerates building construction while reducing waste.
- Robotic Bricklayers: Lay bricks faster and with greater precision than human workers.

2. Building Information Modeling (BIM)

- BIM allows for 3D modeling of buildings, improving planning and reducing design errors.
- Enhances collaboration among architects, engineers, and contractors.
- Helps in cost estimation and material optimization.

3. AI & Machine Learning

- Predictive analytics improve project scheduling and risk assessment.
- AI-powered tools automate project management tasks.
- Machine learning enhances safety by identifying potential hazards.

4. IoT & Smart Equipment

- Sensors track equipment usage and maintenance needs, reducing downtime.
- Wearable devices monitor worker safety and health in real-time.
- Connected construction sites improve communication and efficiency.

5. Augmented Reality (AR) & Virtual Reality (VR)

- AR helps with on-site visualization and error detection.
- VR provides immersive training for workers, improving skills and safety awareness.

6. Cloud & Mobile Technology

- Cloud-based project management tools streamline collaboration.
- Mobile apps enable real-time updates, reducing delays and miscommunication.

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WORKSHOP ON RIVET TECHNOLOGY

The workshop on Rivet Technology was conducted on 25th Feb, 2025 at Room .no 311. The event was organized by Civil department and attended by students and faculties. The primary objective of the workshop was to provide participants with in-depth knowledge of rivet technology, its applications, and advancements in the field. The speaker of the event was Mr. Satyam Dixit (Sr. Software Engg). The workshop was highly informative and interactive, providing attendees with both theoretical and practical exposure to rivet technology. The feedback from participants was overwhelmingly positive, highlighting the effectiveness of the hands-on training sessions. The event successfully enhanced the knowledge and skills of attendees, equipping them with practical expertise to apply in their respective fields.



WORKSHOP ON

DESIGN THINKING, CRITICAL THINKING, AND INNOVATION DESIGN

The department has organized guest lecture on “Workshop on Design Thinking, Critical Thinking, and Innovation Design. The resource person for the IIC activity session was Dr. Rishabh Gupta (Software-Trainer, Ducat, Noida). There were 40 students present in the guest lecture & the total No. of staff Teaching participated was 05. The lecture by the speaker focused on:-

- Participants gained a deeper understanding of design thinking and its practical applications.
- Improved critical thinking abilities that can be applied in decision-making.
- Exposure to various innovation strategies and problem-solving methodologies.
- Collaborative learning through hands-on activities and group discussions.

The workshop led to several positive outcomes, including:

- Enhanced problem-solving capabilities among participants.
- Increased ability to apply critical thinking in real-world scenarios.
- Development of innovative prototypes and solutions through collaborative teamwork.
- Strengthened networking and knowledge-sharing among attendees.
- Encouragement for further learning and exploration of design thinking methodologies.

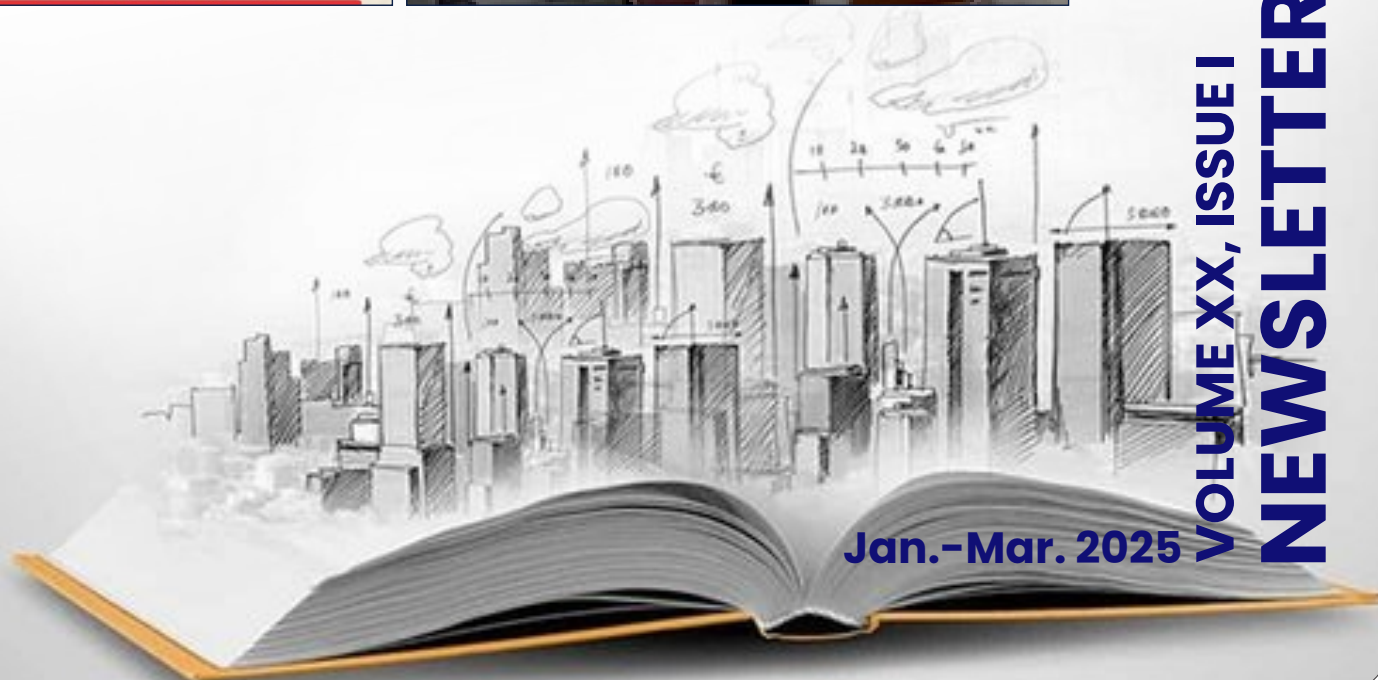
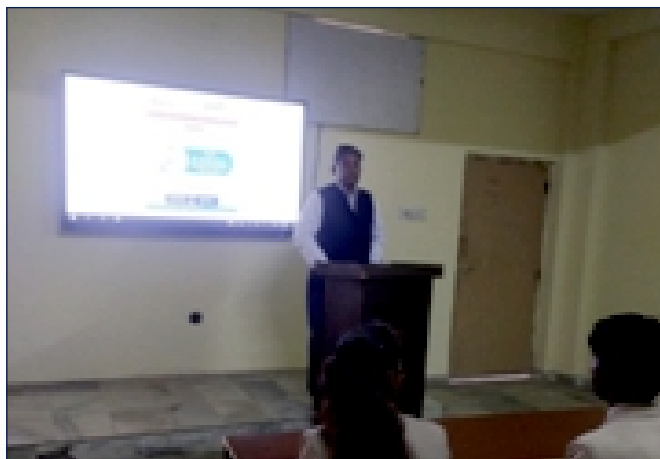


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GUEST LECTURE ON TECHNOLOGY READINESS LEVEL (TRL)

A guest lecture on Technology Readiness Level (TRL) was organized on 27th Feb, 2025 at Smart Class, Room No 311. The session was conducted by Mr. Satish Kumar (Retd. Executive Engineer, Bihar Govt). The objective of the lecture was to provide students and professionals with insights into the TRL framework and its significance in technology development and commercialization. The guest lecture on Technology Readiness Level was highly informative and insightful. It provided attendees with a thorough understanding of TRL and its importance in the innovation lifecycle. The session encouraged students and professionals to assess and plan their technological developments effectively. The lecture concluded with an engaging Q&A session where participants asked questions regarding TRL implementation in their respective fields. The speaker also provided guidance on career opportunities in technology development and research.





Department Of Civil Engineering



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