

Newsletter

Polyयांत्रिकी

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FROM THE DESK OF HOD- ME



Mr. Tribuwan Singh
HOD-ME
IIMT College of Polytechnic

Hydrogen Solar Panel: A Step towards Clean Energy

Hydrogen solar panels represent a promising advancement in renewable energy technology, combining solar power with hydrogen production. Unlike traditional solar panels that generate electricity, hydrogen solar panels use sunlight to split water molecules into hydrogen and oxygen through a process called photo electrochemical (PEC) water splitting.

The key feature of hydrogen solar panels is their ability to produce clean hydrogen fuel directly from sunlight and water. This hydrogen can be stored and later used in fuel cells to generate electricity, power vehicles, or supply energy to industries. Since the only byproduct of hydrogen fuel is water, it offers a sustainable and environmentally friendly alternative to fossil fuels.

These panels typically consist of semiconductor materials that absorb sunlight and generate the energy needed to split water molecules. Recent innovations have improved the efficiency and durability of these materials,

making hydrogen production more viable for large-scale use.

One of the major advantages of hydrogen solar panels is energy storage. Traditional solar panels rely on batteries, which can degrade over time and require rare materials. In contrast, hydrogen can be stored for long periods without loss, offering a more stable and scalable solution.

However, challenges remain. The technology is still in its early stages, with high production costs and limited commercial availability. Research is ongoing to develop cost-effective materials and improve the overall efficiency of the panels.

Despite these hurdles, hydrogen solar panels hold great potential for a sustainable energy future. As global demand for clean energy grows, this innovative technology could play a crucial role in reducing carbon emissions and transitioning to a low-carbon economy. With continued research and investment, hydrogen solar panels may soon become a mainstream solution in the global energy landscape.



NUKKAD NATAK

The Cultural Club of IIMT College of Polytechnic, Greater Noida, under the coordination of Ms. Sakshi Rana and Deputy Coordinator Ms. Garima Singh, organized a powerful Nukkad Natak on 26th March 2025 to raise public awareness about the pressing issue of digital arrest and its implications on online freedom, privacy, and human rights. Conducted at prominent locations like Jagat Farm and Alpha Commercial Belt, the street play captivated a diverse audience and sparked critical discussions on digital surveillance and misuse of technology. The initiative successfully encouraged civic dialogue on protecting digital freedom and inspired many to seek knowledge about online security and privacy.



Students & Faculties Actively Engaged in the Nukkad Natak



ONLINE WORKSHOP

The Startup Club of IIMT College of Polytechnic, Greater Noida, under the guidance of Coordinator Mr. Dharmendra Kumar and Deputy Coordinator Ms. Babita Pandey, successfully organized an interactive online workshop on **Startup Challenges and Prototype Development** during the 2024–25 Even Semester. Aimed at fostering entrepreneurial thinking and innovation among students, the workshop focused on the practical challenges faced by startups in their early stages and the vital role of prototyping in validating business ideas. This initiative not only enhanced participants' understanding of the startup ecosystem but also encouraged them to transform innovative ideas into practical solutions ready for today's competitive market.



Students & Faculties actively attended the Workshop



Department of Electrical Engineering



INDUSTRIAL VISIT

The Electrical Engineering Department organized an industrial visit to Sho Shin Trainings, Noida, on 2nd April 2025, for 44 students from 1st to 3rd year, coordinated by Mr. Manoj Kumar.

The visit provided hands-on experience with PLC, IoT, and automation technologies, along with insights into the latest industry trends. Students engaged with professionals, observed practical applications, and participated in interactive sessions. Pre-visit briefings and post-visit discussions enhanced learning and reflection.

This visit bridged the gap between academic concepts and real-world industry practices, boosting students' practical knowledge and professional exposure.



INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education, Government of India)

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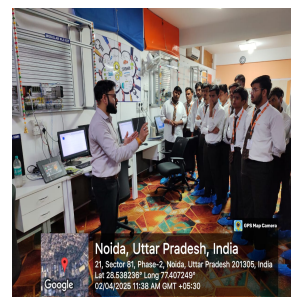
Department of Electrical Engineering
is organizing
INDUSTRIAL VISIT

Sho Shin
Beginner's Mind - Attitude of Learning

Plot No 20, Block A, Phase-2, Noida, Uttar Pradesh 201305
Wednesday 2nd April, 2025 | Time - 10:00 AM Onwards

Faculty Coordinator
Mr. Manoj Kumar (Lecturer)

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Students of EE Attended the Industrial Visit

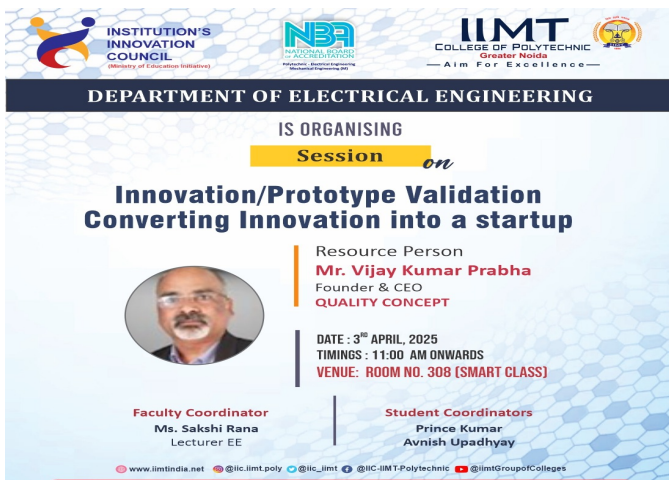
Apr- Jun 2025, Issue-XX, Volume- XXIIIV

GUEST LECTURE

A guest lecture on **Innovation and Prototype Validation: Converting Innovation into a Startup** was held for Electrical Engineering students, featuring Mr. Vijay Kumar Prabha, CEO of Quality Concept, Greater Noida. The session covered the journey from innovative ideas to startups, emphasizing design thinking, prototype validation, user feedback, and business model development. The event was highly interactive and beneficial, equipping students with valuable knowledge on transforming innovations into sustainable startups.

TECHNOKRITI -2K25

Technokriti 2K25, held as a one-day technical fest, aimed to foster innovation, intellectual curiosity, and technical excellence among students. The event featured several engaging activities including Innovation Display, Paper Verse, IQ Ignition, and Next Gen Creation, allowing students to showcase research, solve challenging puzzles, and demonstrate practical prototypes. Technokriti 2K25 was a successful platform blending theory with practical application and fostering a culture of creativity and collaboration.



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DEPARTMENT OF ELECTRICAL ENGINEERING

IS ORGANISING
Session on
**Innovation/Prototype Validation
Converting Innovation into a startup**

Resource Person
Mr. Vijay Kumar Prabha
Founder & CEO
QUALITY CONCEPT

DATE : 3RD APRIL, 2025
TIMINGS : 11:00 AM ONWARDS
VENUE: ROOM NO. 308 (SMART CLASS)

Faculty Coordinator
Ms. Sakshi Rana
Lecturer EE

Student Coordinators
Prince Kumar
Avnish Upadhyay

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DEPARTMENT OF ELECTRICAL ENGINEERING
IS ORGANIZING
TECHNOKRITI - 2K25
The Technical Fest

INNOVATION DISPLAY **IQ IGNITION** **PAPER VERSE** **NEXT GEN CREATION**

RS. 50 PER PARTICIPANT PER ACTIVITY
VENUE: VISHVESHWARYA HALL

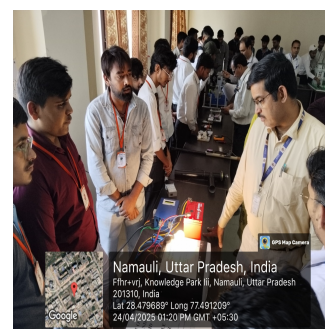
Thursday, 24th April, 2025 | **10:00 AM Onwards**

Event Coordinator
9760550155

For more details, kindly Scan the QR Code

Scan for Registration Scan for Payment

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Faculties and Students Attended the Guest Lecture

Students Displayed the Projects

Winners Honoured with Certificates & Medals

Department of Civil Engineering



MILAN 2K25

Milan 2K25, organized by the Civil Engineering Department on 1st March 2025 at IIMT College of Polytechnic, was a vibrant alumni reunion aimed at strengthening bonds between past and current students. The event, coordinated by Mr. Vikash Kumar Gautam, was inaugurated by Dr. Mayank Aggrawal and Dr. Ankur Johri, alongside other senior leaders. Alumni from diverse sectors shared their career journeys and insights during a panel discussion, while networking sessions enabled meaningful interactions.

The occasion featured engaging activities, including a performance by singer Parmish Verma, and a felicitation ceremony honouring outstanding alumni. With 21 participants, Milan 2K25 successfully celebrated alumni achievements and inspired future engineers.



Alumni Enjoyed the Moments of MILAN-2K25

INDUSTRIAL VISIT

The industrial visit to Civitech Developers Pvt Ltd on 3rd April 2025 provided 26 civil engineering students practical exposure to real-world construction techniques, materials, machinery, and safety protocols. Coordinated by Mr. Mainuddin Khan, the visit helped students connect theoretical knowledge with industry practices, observe project management, and understand environmental considerations. Interaction with professionals enhanced learning, communication skills, and career insights while fostering networking opportunities. The visit motivated students, boosted confidence and offered valuable lessons in corporate culture and teamwork.



Students Attended the Industrial Visit



Students Attended the Alumni Connect



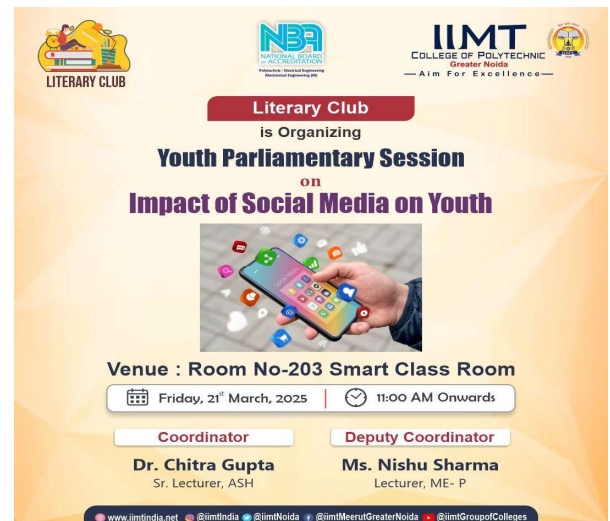
Felicitations of Alumni, Ms. Mansi Saklani

Department of Mechanical Engineering



YOUTH PARLIAMENTARY SESSION 2K25

The Literary Club of IIMT College of Polytechnic, Greater Noida, successfully organized a Youth Parliamentary Session on the Impact of Social Media on Youth during the 2024–25 Even Semester under the guidance of Coordinator Dr. Chitra Gupta and Deputy Coordinator Ms. Nishu Sharma. The event aimed to enhance participants' understanding of how social media influences various aspects of youth life, including mental health, education, relationships, and personal development. It provided a platform for students from different institutions to engage in thoughtful debates, critically analyze digital challenges, and propose constructive solutions, fostering awareness, communication skills, and collaborative learning. The winners of the session were Anushka Rawat (IIMT College of Law) who secured the first position, Bindesh Kumar Jha (IIMT College of Polytechnic) in second, and Ritik Singh (IIMT College of Science & Technology) in third place.



Literary Club
is Organizing
Youth Parliamentary Session
on
Impact of Social Media on Youth

Venue : Room No-203 Smart Class Room
Friday, 21st March, 2025 | 11:00 AM Onwards

Coordinator
Dr. Chitra Gupta
Sr. Lecturer, ASH

Deputy Coordinator
Ms. Nishu Sharma
Lecturer, ME- P

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Students Participated in
the Youth Parliamentary
Session



Students were Accoladed
with Prizes and Medals

4TH NATIONAL CONFERENCE RISEM-2K25

The 4th National Conference RISEM-2K25 on Recent Innovation in Science, Engineering, and Management was successfully held on 28th March 2025 at IIMT College of Polytechnic, Greater Noida. The event served as a vibrant platform for researchers and academicians from India and abroad to present their innovative work and share insights across disciplines. Inaugurated by Dr. B.S. Rajput, Former Vice-Chancellor of HNB Garhwal University and Kumaun University, and graced by Prof. Dr. Sanjay Kumar Sharma of Gautam Buddha University as Guest of Honour, the conference featured two technical sessions with 73 research papers from institutions such as Lovely Professional University, Sharda University, Wichita State University, and the University of Technology and Applied Sciences, Oman, among others. Dignitaries from the IIMT Group, including Dr. Ankur Johri, Prof. Umesh Kumar, Mr. Ajay Sharma, and Dr. Poonam Pandey, were also present. The event concluded with a valedictory session, where Organizing Secretary Mr. Zakir Ali Haidari delivered a heartfelt vote of thanks, followed by the National Anthem, marking the successful culmination of a day dedicated to academic excellence and collaboration.

The 4th National Conference RISEM-2K25 (Recent Innovation in Science, Engineering, and Management) was successfully organized on 28th March 2025 at IIMT College of Polytechnic, Greater Noida, serving as a prestigious academic gathering that brought together researchers, academicians, and professionals from across India and abroad. The conference aimed to foster

innovation and interdisciplinary dialogue among experts in science, engineering, and management.



Proceedings Inaugurated by the Esteemed Dignitaries



Researchers were Honoured with Certificates

FACULTY CORNER**Adapting Civil Engineering Education for a
Changing World**

In today's fast-evolving, knowledge-driven global economy, nations that lead in technology and innovation naturally gain international recognition. Engineers form the backbone of this progress, solving real-world problems and driving infrastructure and development across sectors. Among all branches of engineering, Civil Engineering remains deeply rooted in the physical transformation of the world—are it highways, skyscrapers, or water systems. Yet, paradoxically, admissions in this vital field have been on a steady decline.

Between 2019 and 2024, a noticeable slump in student enrolment in Civil Engineering courses was observed across the country. According to recent education trends, the drop reached a concerning low in 2024. This fall can be attributed to multiple factors: a shift in student interest towards computer science and IT-driven fields, fears of limited job opportunities and industry-academia disconnect in curriculum relevance. However, things are set to change. The year 2025 is being seen as a turning point. With the world increasingly dependent on sustainable infrastructure and climate-resilient development, the demand for competent civil engineers is expected to rise sharply. India, being a develop
Adapting Civil Engineering Education for a Changing

A crucial step towards reviving the stream lies in establishing stronger ties between institutions and industries. Companies involved in construction, infrastructure, and public utilities should be encouraged to visit colleges regularly for recruitment drives, internships, and live project collaborations. This not only bridges the gap between theory and practice but also builds student confidence in choosing Civil Engineering as a stable and promising career.

Furthermore, curriculum upgrades are essential. Institutions need to embed industry-relevant content such as digital construction tools, green building materials, urban mobility, disaster-resistant designs, and Building Information Modelling (BIM) into the core syllabus. Pedagogy should move beyond blackboards to field training, case studies, and simulations that mirror real-world challenges.



Mr. Rajiv Ranjan Singh
B.Tech (CE), PGD (QSE)
IIMT College of Polytechnic,
Greater Noida

STUDENT CORNER

**FINANCE AND EDUCATION: TWO PILLARS OF
SSUCCESSFUL LIFE**

In today's complex and fast moving world. Both finance and education play crucial role in shaping and individual' success and well -being. While some may argue that one is more important than other the truth is that finance and education are deeply interconnected and equally essential. Each support and enhance the other forming the foundation for a stable and fulfilling life.

The Role of Education: Education is more than just attending school of earning a degree. It provides people with the knowledge skills and critical thinking needed to understand the world, solve problems and make inform decisions.

The Role of Finance: On the other hand finance is the engine that powers everyday life. It is essential for meeting basic need such as food, shelter healthcare and transportation.

Conclusion: In the journey of life neither finance nor education should be seen as more important than the other, Instead they should be viewed as partners that together create a solid foundation for personal success and societal progress.



Divya Singh
EE, I Year

GENERAL CORNER- QUIZ

General Knowledge Questions

1. Who is the current Secretary-General of the United Nations?
2. Which country is known as the "Land of the Rising Sun"?
3. Who was the first woman to go to space?
4. What is the capital of Australia?
5. In which year did India gain independence from British rule?
6. Which planet is known as the "Red Planet"?
7. What is the chemical symbol for gold?
8. Which river is the longest in the world?
9. Who wrote the Indian national anthem, "Jana Gana Mana"?
10. Which Indian city is known as the "Silicon Valley of India"?

**Answers of Previous Newsletter General
Corner (Jan-Mar'2025)**

- | | |
|-------------------|-----------------------|
| 1. Paris | 2. Mars |
| 3. Japan | 4. Mount Everest |
| 5. Five | 6. Red, Yellow & Blue |
| 7. Carbon dioxide | 8. Ostrich |
| 9. Africa | 10. India |



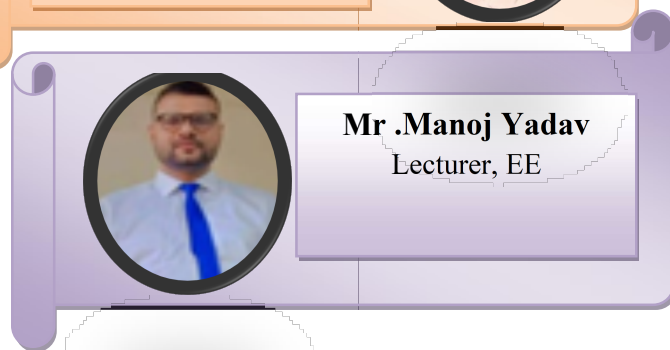
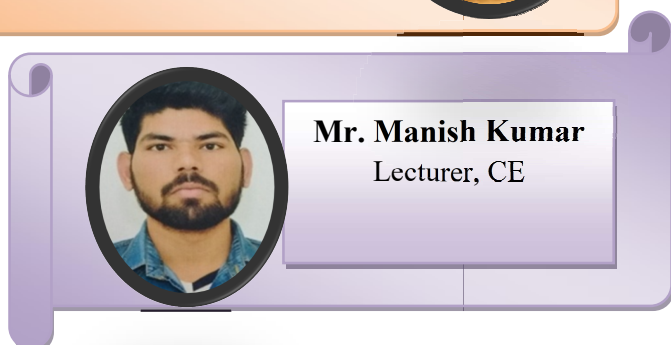
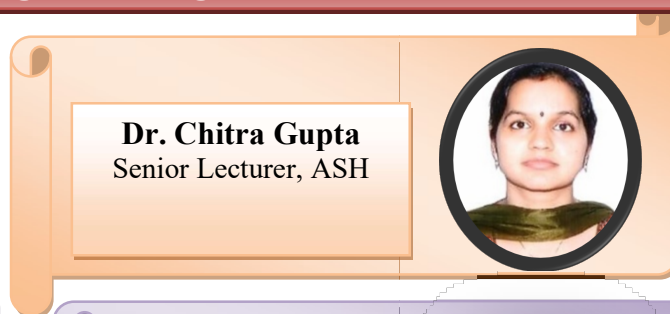
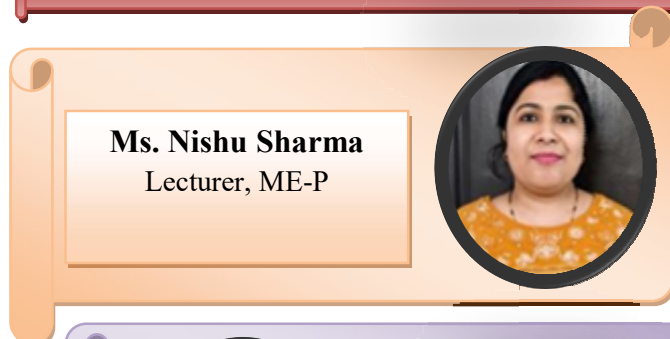


"We extend our sincere appreciation to our dedicated readers, whose engagement and support drive the success of our esteemed quarterly newsletter. We also express profound gratitude to our talented authors, whose innovative research enriches the scholarly discourse in our field.

Finally, we extend special thanks to our distinguished Editor-in-Chief for his guidance, leadership, and unwavering commitment to excellence.



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